

2016

18th annual **Student Research + Creativity exposition**

THURSDAY, APRIL 28th

1:00 to 6:00 P.M.  
WILLIAMS CENTER

4:00 p.m.  
REMARKS BY  
ADMINISTRATORS

204 Williams Center



4:15 P.M.  
KEYNOTE ADDRESS:

**Dr. Erion Plaku**  
Fredonia Alumnus and Assistant Professor  
Department of Electrical Engineering  
and Computer Science Catholic University

"Enhancing Robot Autonomy  
through Motion Planning"

RECEPTION TO FOLLOW

POSTERS,  
PRESENTATIONS,  
DOCUMENTARIES,  
DISPLAYS,  
PERFORMANCES,  
DEMONSTRATIONS

***Student Research and Creativity Exposition Committee:***

Ziya Arnavut, Computer and Information Sciences  
Paul Benson, Sponsored Programs  
Jack Croxton, Office of Student Creative Activity and Research  
Jennifer Dyck, Psychology  
Tracy Horth, College of Liberal Arts and Sciences  
Megan Kane, Graduate Representative  
David Kinkela, History  
Robyn Reger, School of Business and Assoc. Provost Office  
Carol Smith, Communication  
Susan Sturm, Curriculum and Instruction  
Charlene Takacs, Undergraduate Representative  
Jonathan Titus, Biology  
Peter Tucker, Visual Arts and New Media  
Ivani Vassoler-Froelich, Politics and International Affairs

***The following individuals and offices are acknowledged for their many contributions:***

Teresa Brown, Provost and Vice President for Academic Affairs  
Kevin Cloos, Mark Delcamp, and Facilities Services  
Michael Lemieux and Lisa Noody, Campus Life  
Stephanie Teachman, College of Liberal Arts and Sciences  
Faculty Student Association

*“Congratulations to the students and mentors whose work is featured in the 2016 Student Research and Creativity Exposition! As you can see from the program and from interactions with the many students*



*who are involved in today’s program, Fredonia offers opportunities for authentic scholarly and creative work across a range of disciplines, and this year we are featuring work that models community engagement as well. Our campus has the most important resources for accomplishing this kind of work: talented, curious students and faculty with the creativity, expertise, and commitment to guide those students in their projects. Regardless of what’s next after graduation—advanced studies or professional work in their fields—Fredonia students have the research, performance, and presentation skills to succeed.”*

*Sincerely,*

**Virginia Horvath, Ph.D.**  
*President*

*Congratulations to the students and faculty mentors who are participating in the 2016 Research and Creative Activity Exposition. The annual Research and Creative Activity Exposition reflects the university’s commitment to undergraduate research as a high-priority activity for both faculty and students. The National Council of Undergraduate Research has identified several characteristics of excellence in undergraduate research on university campuses, including scholarly faculty who are committed to mentoring students in their field, broad participation from faculty and students across disciplines, accessible opportunities for undergraduates, and integration with other engaging high-impact opportunities such as community engagement. I am very pleased to see Fredonia possesses the essential characteristics of excellence in undergraduate research, scholarship and creative activity. Thank you to the faculty and staff who make these transformative learning experiences possible for our students, and congratulations to our students for their good work on display today.*



*Sincerely,*

**Teresa M. Brown, Ph.D.**  
*Provost and Vice President for Academic Affairs*

*One of my favorite poets, E.E. Cummings, is quoted as saying “Once we believe in ourselves, we can risk curiosity, wonder, spontaneous delight, or any experience that reveals the human spirit”. The act of creating—creating research, creating art, creating scholarly work—is one of the most highly regarded in any college or university. The time and effort, the engagement, and the commitment that it takes to “create” should be applauded and congratulated.*



*At the OSCAR Expo, we witness the educational collaboration that has been forged between Fredonia students and faculty, and we are invited to experience, first hand, the human spirit that exists on our campus.*

**Judith Horowitz, Ph.D.**

*Associate Provost for Graduate Studies, Sponsored Research, and Faculty Development*



*“The mission of the Office of Student Research and Creative Activity is to promote and support student scholarly activity and creative work across the Fredonia campus. Such an endeavor is integral to the teaching and learning experience. It provides an opportunity for students to become closely affiliated with a faculty mentor and to develop skills and knowledge that will benefit them significantly in the future. Clearly, both students and faculty gain from such activity, and therefore it is important that the institution make a concerted effort to promote such collaborations.*

*I am very pleased by the level of participation in this year’s Research and Creative Activity Exposition and I am truly impressed by the quality of our students’ work. They should indeed be proud of their considerable accomplishments. For many of them this is the capstone experience of their academic careers. Furthermore, I would like to commend all of the faculty mentors for the time and energy that they have devoted to supervising these projects. Thanks to everyone who has contributed to this special day of celebration.”*

*Sincerely,*

**Jack Croxton, Ph.D.**

*Director of the Office of Student Creative Activity and Research*

*“Good projects require both inspiration and practice. You need to have discipline as well as flexibility. In the arts, sciences, and humanities, creative activity and research go hand-in-hand, and this Exposition shows our students’ work at its best.”*

*Thank you and congratulations to all participants, and to their faculty mentors and to OSCAR for making this possible.*

**Ralph J. Blasting, Ph.D.**  
*Dean, College of Visual and Performing Arts*



*The examples of collaboration between faculty and students and interdisciplinary student teams represented in the Fredonia Student Exposition are perfect illustrations of our baccalaureate goals of students becoming “**Skilled, Connected, Creative, and Responsible**” during their years at Fredonia. We have brought together our best students and faculty to form a true “learning community” that has advanced knowledge in their respective fields, produced extraordinary creative works, and brought the theories and concepts learned in a course alive to solve a problem or advance an idea. Many of these projects and creative efforts demonstrate all four Learning Goals values here at Fredonia.*

*These projects, works of art, research reports, experiments, and demonstrations whether created by an individual or a team represent the “best learning outcomes” of our University. Students have the opportunity to work with each other in interdisciplinary teams; with faculty from across the University; with leaders of profit, non-profit and governmental organizations; with students and members of the communities in the region; and experience learning opportunities that involve actively engaging their knowledge.*



*With the opportunities presented at the Fredonia High Technology Incubator, these projects will include the entrepreneurs at the cutting edge of their fields who will make a contribution to the regional and national economy by making their ideas into tangible products and services for their chosen customer base.*

*Congratulations to the students, faculty, and organizations that participated in the Student Exposition!”*

**Russell P. Boisjoly, D.B.A.**  
*Dean, School of Business*



*“Student research and creative endeavors are a critical component of the intellectual vitality of our university. These activities of critical inquiry are the authentic application of what is learned from textbooks, reference materials, and the classroom. These application projects also provide a rich opportunity for faculty and students to collaborate as active partners in applied scholarship. The Student Research and Creativity Exposition provides our campus learning community with an event to showcase and celebrate the quality of academic engagement of our students. Congratulations to all who have participated in this most excellent event!”*

*Sincerely,*

**Christine Givner, Ph.D.**  
*Dean, College of Education*



*The process of creating new works and researching new areas of knowledge is rarely easy or problem free. The challenges faced by those exploring new fields and new ways of expression are many and varied but that perseverance, willingness to try new approaches, and continued optimism and enthusiasm generally finds a way to surmount these obstacles. We see the evidence of this process here today. The Students should be very proud of their accomplishments. I know their faculty mentors are and I certainly am. By presenting here our student colleagues have demonstrated their commitment to trying new things and seeing their projects through to completion. And that experience is at least as important as the knowledge and skills in the discipline that they have learned through the many hours of effort that have been expended.*

**Roger A. Byrne, Ph.D.**  
*Interim Dean, College of Liberal Arts and Sciences*

**Thursday, April 28, 2016**  
**Williams Center**  
**1:00 p.m. to 6:00 p.m.**

*Most exhibits will be available for viewing throughout the day – students are scheduled to be present to answer questions at the indicated times.*

**POSTERS AND OTHER PRESENTATIONS**  
**Multi-purpose Room**

**1:00 p.m. to 1:30 p.m.**

***St. Columban's Speaks***  
Molly Mellott, English

***Early Intervention Program Internship***  
Connor Bell, Communication Disorders and Sciences

***Reduplication of the Development and Validation of the Spanish-English Language Proficiency Scale***  
Lynne Harris, Speech-Language Pathology

***Engaging in Our Community: Students in Service, Fredonia's Relay for Life by Colleges Against Cancer***  
Willis Stephanie, Public Relations

***Endangered Species Analysis***  
Sara Marszalkowski, Applied Mathematics

***Nutrition and Marketing within Public Schools***  
Jessica Chatt, Exercise Science

***Smart Solutions for Smart Cities: Automated Patient Handling For Disasters***  
Anatoliy Biliciler, Computer Science

***College Degree & Salary***  
Lauren Lind, Business Finance

***CRISPR Mutagenesis of the gurken 5' Untranslated Region***  
Brian Guy, Molecular Genetics

***What your pictures say about you: The effects of photo context on personality judgment***

Meghan Flynn, Psychology

***Geospatial Information Technology Opportunities at Fredonia: A Retrospective of GIS Work in Support of an Interdisciplinary Education***

Kendra Silleman, Geology

***Perceptions of Service Providers About Emerging Adults After Incarceration***

Richard Belz, Psychology

***Raising awareness on cardiovascular disease, cerebrovascular accidents and elevated low density lipoprotein levels within Chautauqua County.***

Courtney Altman, Psychology

***A comparison of male prostitution in Florence, Italy and Victorian England.***

Cassandra Campagna, Childhood Inclusive Education

***The History of Lesbianism***

Selena Ragland, Biology

***The Tale of Two Internshtips***

Ashley Wise, Psychology

***My Sister is Transgender: My Exploration of Myself, Family, and Gender***

Eleanor Rubio, English

***Systems of Support for Emerging Adults After An Incarceration***

Benjamin Carlson, Psychology

***Success in Students & in Youth with Barriers***

Lauren Lind, Business Finance

***Differences in gender based on preference in research of victims or offenders***

Ernesto Mercado Irizarry, Psychology

***Studying the Enforcement of Romance Within the Black Community***

Nalani Love, Communication

***Abuse, Identity and Social Mobility***

Deanna Buley, Music Industry/Women's and Gender Studies

***Independent Study Abstract: SURC & OSCAR***

Victoria Levy, Communication Disorders and Sciences



**1:30 p.m. to 2:00 p.m.**

**Engaging in our Community Series: Student Association Community Relations Committee**

Bridget Doyle, History and Political Science

**Overweight America: Predicting Obesity Through Statistical Analysis**

Richard Belz, Psychology

**The Nexus Effect: Making Connections for Female Empowerment**

Doreen Bumpus-Lane, Interdisciplinary Masters

**Increasing Health Literacy at The Chautauqua Center (Dunkirk)**

Melissa Mallay, Biology

**It's the rule, shots before school!**

Kaitlind Kaylor, Psychology

**Mental Health Awareness Month**

Amanda Reed, Psychology

**Crafting an Art Song from Scratch**

Emily Joy Sullivan, Graduate Student in Music Composition

**Their Eyes Were Watching God: Social Justice and Masculinity**

Adam Silverman, Social Studies Education

**Shakespeare's 400th Anniversary Celebration**

Alanna Hazard, Maria Wild, Sara Melchiorre, Kristina Smith, English/History

**Effects of Race and Gender on Perceptions of Intelligence and Aggression**

Katelyn DeChard, Taylor Kunkes, Psychology & Sociology

**British Immigration Politics**

Daniel Orzechowski, Political Science & Journalism

**People Inc Group Home Intern**

Sarah Palumbo, Communication Disorders and Sciences

**Model European Union A Conference and a Learning Experience**

Patrick Brierley, Political Science

**Complexity of Complexion.**

Titanya Preddie, Communication Disorders and Sciences

**Translational Regulation of the grk mRNA during Drosophila Oogenesis**

Joshua Blundon, Anthony Tardibuono, Molecular Genetics

**Female Sexuality in Pre-Modern and Modern Societies.**

Abigail Schloupt, Kimberly Bright, Psychology

**Are Partnerships Truly Equal?**

Ana Figueroa, Sociology

**Music and Movements**

Deanna Buley, Music Industry/Women's and Gender Studies

**The Changes of Groundwater-Levels in The High Plain Aquifer**

Priscilla Pitt, Mathematics

**2:00 p.m. to 2:30 p.m.**

**Miocene tuff of bonelli house, nw arizona: petrochemical constraints on magmatic processes and comparison to underlying peach spring tuff**

Zakkary Hess, Geology

**Perceptions of Law Enforcement and Civilian Interactions as a Function of Race and Gender**

Brittany Graw, Holly Spain, Emily Lavin, Allison Reding, Psychology

**Public Health Internship: Fred ASSIST "Protected Pleasure"**

Jamie Young, Psychology

**Effect of Educational Attainment on Poverty Level**

Mary Plum, Psychology

**Pre-Modern and Modern Interpretation of the Gender Binary**

Ciara Peters, Jennifer Klimeck, Allison Trask, History

**Zora Neale Hurtson on Social Justice Issues**

OliviaRose Patterson, Public Relations

**Speaker Identification: The Right Anterior Temporal Lobe and Acquired Recognition Disorders**

Holly Blied, Communication Disorders and Sciences

**The SHAPE of an IRES**

Cory Emborski, Allison Martin, Biochemistry

**Affective Forecasting & Decision Making**

Teresa Braun, Stephanie Ahearn, Rebecca Kohl, Psychology

**Comparing modern and Pre modern masculinity**

Melissa Schroeder, Jeffrey Thompson, History

**Using R for Statistical Analysis**

Steven Treacy, Computer Science

**Choose Blue**

Jennifer Breau, Psychology

**Women and the Church**

Vico Vecchiotti, Kim Kachelmeyer, Women's and Gender Studies

**Roman Masculinity Compared to Modern Misogyny**

Jeffrey Thompson, Melissa Schroder, Women's and Gender Studies

**Black Holes**

Andrew Senseney, Physics

**Characterization and Mapping of Novel Mutations in Drosophila**

Paige Jacobs, Alexandria Mandriota, Molecular Genetics

**How does Zora Neale Hurston use her novel, Their Eyes Were Watching God, to comment on intersections between race and gender?**

Juliet Filosofos, Social Work

**The Effect of Live Music, Weather, and Sporting Events on the Sales of a Western, NY Bar**

Frank Moynihan, Economics

**The dark tetrad personality traits in predicting sexual coercion and aggression in female students**

Brooke Park, Taylor Kozuch, Jacquelyn Wertel, Psychology

**Surveying Monetary Affective Forecasting**

Jacob Abraham, Psychology

**Engaging in our Community: Students in Service, Delta Chi**

David Turner, Social Work

**SUNY Model European Union simulation 2016**

Sarah Fuller, Journalism

**Links Between Hostile and Benevolent Sexism, Belief in a Just World, Rape Myth Acceptance, and Cultural Gender Role Beliefs in a Female Hispanic Sample**

Sara Butler, Psychology

**2:30 p.m. to 3:00 p.m.**

**A contextual taxonomy of decision biases and reasoning errors.**

Bradley Volz, Psychology/Criminal Justice

**Improved Fired Safety Exit Plan**

Elizabeth Roosa, Sociology

**Using Technology to Benefit an Office**

Sarah Dix, Communication Disorders and Sciences

**"Choose Blue" Colorectal Cancer Initiative**

Kali Fyock, Public Relations/ Minor Public Health

**Ancient Roman vs Victorian/ Gender Binary**

Anna Booth, Bridget Doyle, History

**Bonnie++: Analysis of Linux and Windows Performance**

Adam Clouthier, Jacob Kohler, Ralph Bohall, Computer Science

**An Analysis of Fire Protection Deficiencies: Dunkirk, NY Fourth Ward**

Zakkary Hess, Jocelyn Lash, Lucas Bauer, Geology

**The Popes Go to War: How Pope Pius XI and Pope Pius XII Combated Hitler and The Rise of Nazism**

Benjamin Schrantz, History

**Cisco Networking Technologies**

Jeffrey Storey, Computer Science

**Feminism, Psychology, and Counseling**

Nina Houck, Psychology

**"Wings of her own"**

Patrice Douglas, Social Work

**The Rising Problem Of E-Waste**

Christian Felser, Computer Science

**Cloud Computing, Environmental Impact, and Green Computing Solutions**

Shannon Grajek, Computer Science

**Lateralized Priming and Recognition of Genuine Smiles**

Sara Butler, Samantha Scalise, Jennifer Kramer, Psychology

**Applied Scheduler Simulator**

Samuel Simpson, Nolan Hettenbaugh, Computer Science

**Parents' Experiences in a Community-Based Dialogic Reading Program**

Delaney Dretto, Sydnee Worth, Psychology

**BARRIERS AND FACILITATORS FOR SAUDI FEMALES IN THE UPPER LEADERSHIP POSITIONS IN HIGHER EDUCATION**

Naimah Almutairi, Master in Education Science (Curriculum and Instruction)

**Challenging Masculinity and Femininity through a Transgender Non-binary Lens**

Graham Caulfield, BFA Theatrical Production and Design, Minors in Visual Arts and New Media & Women's and Gender Studies

**The NMR-Derived Structure of an RNA-Ligand Complex Allows for Rational Drug Design of Tau Exon 10 Targets**

Tim Zembryski, Biochemistry

**3:00 p.m. to 3:30 p.m.**

**Distributed BACI**

Benjamin Pospula, Tamara Normille, Computer Science

**Performance Evaluation of 802.11ac WLAN with RADIUS**

Daniel Luong, Samuel McCagg, Computer Science/Applied Music

**Lograsso Heath Promotion Internship**

Rachel Kaziyev, Psychology -Public Health Minor

**Living and Learning Communities: The Honors House**

Julianna Grabowski, Kenneth Starr, Music Education/performance

**Alternative Break Program: Service Learning & Community Engagement**

Jeannie Galbraith, Social Work

**Designing of Inventory Management System Using Open Source Object-Oriented Languages**

Michael Lewis, Computer Science

**Feminism in Zora Neale Hurston's "Their Eyes Were Watching God"**

Benjamin Chatley, Social Studies Education/History

**Zora Neal Hurston's Their Eyes Were Watching God and Social Justice in the Court Room**

Rebekah Denz, History

**A Case for Music Therapy with the Elderly: A Public Health Internship**

Brianna Matson, Social Work

**The Comparison of Language Acquisition Skills in Children from Low Socioeconomic Schools in Belize, Central America and Chautauqua County**

Olivia Kaltenbach, Communication Disorders and Sciences

**The Relationship Between Locus of Control, Self-Esteem, And Exercise Behaviors**

Patricia Whetstone, Mary Plum, Matt Linderman, Psychology

**Healthy Eating and Participation in School Cafeterias**

Carissa Hebert, Public Relations

**Webcomics: Bridging the gap between print and digital media**

GiAnna Ligammari, BFA Animation/Illustration

**Distribution of Myosin Heavy Chain Isoforms in Single Hybrid Muscle Fibers**

Mark Dudek, Geraldo Biber, Jeffrey Polanco, John Martin, Caitlyn Minihane, Biology

**The Beowulf Cluster**

Peter Vincent, Adam Moncure, Mike Lewis, Computer Science

**Gender Bias and Social Stigma in Body Modification**

Kia Richman, Psychology

**MOGII Representation in Television - The Degrassi Chronicles**

Maegan Clark, Visual Arts & New Media

**Using Hadoop for Big Data Analytics**

Nicholas Jacobs, Computer Science

**Transgender Evolution**

Caiden Igoe, HughDean Blake, Music Education

**Mary Louise White**

Patricia Albro, Katryna Pierce, Zach Beaudoin, HollyMcLaughlin, Meghan Berlin, Rianna Seelig, English

**Habitat for Humanity Club: Students Engaging in Service**

Shane Meenaghan, Early Childhood and Childhood Education with Biology

**Early Intervention by Structure Collapse**

Mert Vurgun, Computer and Information Sciences

**3:30 p.m. to 4:00 p.m.**

**The Chautauqua Health Department's Impact on the Community**

Tanisha Morrison, Criminal Justice and Sociology

**English Grammaticality Markings in Bilingual Children with and without Language Disorders**

Jaimie Harris, Speech-Language Pathology

**Workforce Development Research**

Courtney Winter, Emily Corson, Business Administration: Marketing

**Suggestions for Clinic Practices for Transgender Students**

Amanda Thornton, Women and Gender Studies

**The Pre-Modern Binary vs. The Modern Binary**

Lexi Reyngoudt, Sebastian McAfee, Audio/Radio Production

**Waxman's Algorithm for non-Hermitian Hamiltonian Operators**

Sarah Chamberlain, Physics

**An investigation of the short- and long-term effects of a single neonatal exposure to lithium.**

Kelli Michel, Biology

**Zora Neale Hurston- Social Justice**

Adam Klajbor, History

**We Were There Too! Women Soldiers in the American Civil War: How Three Brave Women Defied the Social Norm and Joined the Army**

Kali O'Day, History

**INTERNATIONAL STUDENTS' PERSPECTIVE IN AMERICA**

Dongjin Jung, Psychology

**Women Roles in "Their Eyes Were Watching God"**

Daquella Blacks, Music Industry

**Premodern Lesbianism As Compared To Modern Lesbian Feminism**

Genevieve VanZile, Anneliese Bienko, Psychology

**Big Data in the Music Industry**

Tylyce Lewis, Computer Science

**Characterization of a Microbial Biofilm in Canadaway Creek**

Michaela Kinney, Zachary Grieco, Joseph Bunge, Kevin Nickerson, Molecular Genetics

**Measuring Sexual Aggression-Related Implicit Theories: Belief in The Unknowability of The Opposite Sex**

Richard Belz, Elayna Kinney, Psychology

**Violence towards women of color in Their Eyes Were Watching God**

Nathalie Bermejo, International Studies

**Women Representation in STEM fields as Depicted in Animated Movies**

Francesca Gerace, Public Relations and Women's and Gender Studies

**Clinician Bias in the Assessment of Grammaticality**

Brittany Harvey, MSc. Speech-language pathology

**Race vs. Class: How America Believes that Racism has ended**

Kanard Lewis, Audio/Radio

**Gender Roles: Men and Women In Society**

Matthew Eisen, Social Studies EDU

**Lower Limb Electromyographic Evaluation and Oxygen Consumption of Motorized and Non-Motorized Treadmill Running**

Charlene Takacs, Exercise Science

**5:00 p.m. to 5:30 p.m.**

**The Great Divide: A Study of Middle School Students, College Students, and Adults Ability to Complete Long Division**

Steve Sturm, Mathematics 7-12



**A Study of College Students' Understanding of Composition Functions**

Madison Cole, Mathematics Education 7-12

**A College Students Exploration of Isomorphic Numeric and Word Percent Problems**

Emily Tronolone, Mathematics 7-12

**Visual versus Non Visual Geometry**

Dylan Leitner, Mathematics 7-12

**A Study of High School Students' Problem Solving Techniques When Calculating the Area of Irregular Polygons**

Carah Bradford, Mathematics 7-12

**A Study of College Students' Misconceptions with Radicals and Rational Exponents**

Collene Sikora-Press, Mathematics Education 7-12

**The Heart's of St. Columban's**

Molly Mellott, Joyce Smith, English

**The Legacy of Black Feminism**

Tyra Henson, English

**SCALE Initiative Research**

Michaela Lee, Business Administration Management

**Winning in the NHL**

Taylor Bourne, Mathematics

**HIV/AIDS Positive Gay Men: Resources and Problems within a Marginalized Population**

Margaret Keefer, Psychology

**Through Her Black Eyes**

Cassandra Moise, Medical Technology

**Queerness in Christianity: Past vs. Present**

Timothy Densmore, Kaitlin Tachibana, Media Management

**Black Womanism: Intersectional Racial Oppression Represented in Zora Neal Hurston's novel "Their Eyes Were Watching God"**

Allegra Freier, History

**Gender and Extracurricular Leadership Position on the Perception of Others**

Courtney Smith, Ashley Wise, Jennifer Beaton, Psychology

**Masculinity**

Ahou Marlene N'guessan, Social Work

**Strides For My Mind 5k Event Planning and Mental Health Awareness**

Timothy Ryan, Public Relations

**5:30 p.m. to 6:00 p.m.**

**Recrystallized Olivine Grain Size Showing Tectonic Emplacement History of Ultramafic Rocks in the Blue Ridge Mountains of Western North Carolina**

Sierra Kaufman, Geophysics and Geochemistry

**A Study of Middle School and College Students' Mental Mathematics Abilities in Real World Contexts**

Elizabeth Brion, Mathematics 7-12

**Project Senior**

Molly Mellott, English

**Internship at the Student Health Center to Promote Community Health**

Anna Prince, History

**Homeless Care Kit**

James Snodgrass, Social Work

**Resource Guide for exiting seniors at TEAM program**

Shannon Schwarberg, Social Work

**Analysis of baby names in the US**

Taylor Bourne, Mathematics

**Criminal Justice in Their Eyes Were Watching God and it's Relevance to Today**

Abigail Agbi, Biochemistry

**Evolution of Sodomy Laws from the Middle Ages to Modern United States**

Alyssa Clark, Michelle Nagle, English & Gender studies

**Downton Abbey: The Edwardian Period to the 1920s**

Colin Gray, Bridget Cook, Melissa Taylor, Venessa Anania, Allie Marcy, English

**Lesbian Identity Within the Pre- Modern Gender Binary Through Contemporary Society**

Allegra Freier, Rachel Vaughn, History

**The intersection of Race and Gender**

Kiera Perkins, Social Studies Adolescent Ed

# ORAL PRESENTATIONS

## **Room G103C**

### **1:00 p.m. to 1:20 p.m.**

Fredonia/Dunkirk Asset Map  
Mia Augostini, Social Work

### **1:30 p.m. to 1:50 p.m.**

Fredonia Enactus Projects 2015-2016  
Delia Napolitano, Rebecca Painter, Katilyn Leichter, Rachel Moreno, Joshua Hayes, Mary Plum, Business Administration, Political Science

### **2:00 p.m. to 2:20 p.m.**

Experiencing a Writing Conference: Massachusetts Poetry Festival  
Emily Wynne, Rianna Seelig, English

### **2:30 p.m. to 2:50 p.m.**

Indigenous Food Justice: Post-NAFTA Food Sovereignty and Anti-Neoliberal Inspired Resistance Movements in Rural Mexico  
Nicole Berger, International Studies and Political Science

### **3:00 p.m. to 3:20 p.m.**

The Influence of Students' Perceptions of Writing on Academic Writing Performance  
Kelsey LiPuma, Literacy

### **5:00 p.m. to 5:20 p.m.**

What is Music Therapy?  
Tara O'Brien, Music Therapy

### **5:30 p.m. to 5:50 p.m.**

Dollhouse: A Posthuman Musical  
Rachael Smith, Music Composition

# **DANCE PERFORMANCE**

## **Dance Studio – 148 Dods Hall**

**1:00 p.m.**

*Orion I*

Choreographer: Sam Kenney, Associate Professor, Department of Theatre & Dance

Presenters: Molly Carriero, Rachel Clayback, Lauren Dewey-Wright,  
Jasmine Joyner, Michelle Kirisits, Ilana Lieberman, Jasmine Mattar,  
Nicole Miller, Rachel Prikazsky, Amanda Sanbelmo, Mercedes  
Smith

Understudies: Jaqlyn Colangelo, Teresa Grosvenor, Vanessa Raffaele

# **VOLUNTEER AND COMMUNITY SERVICES PRESENTATIONS**

The Volunteer and Community Services Program is a part of campus life which provides volunteer opportunities for students to help build sustainable and meaningful partnerships in the community. This program assists students with real world experience while enriching the lives of others and enhancing their academic experience. In addition, the office provides advisement and resources to faculty and staff. The program is dedicated to promoting volunteerism and service learning experiences in and outside the classroom. Students will showcase their volunteer and community service projects/experiences on posters or slideshow demonstration of pictures.

## **Engaging in our Community Series: Student Association Community Relations Committee**

Bridget Doyle, History and Political Science

## **Habitat for Humanity Club: Students Engaging in Service**

Shane Meenaghan, Early Childhood and Childhood Education with Biology

## ***St. Columban's Speaks***

Molly Mellott, English

## **The Heart's of St. Columban's**

Molly Mellott, Joyce Smith, English

## **Engaging in our Community: Students in Service, Delta Chi**

David Turner, Social Work

## ***Engaging in Our Community: Students in Service, Fredonia's Relay for Life by Colleges Against Cancer***

Stephanie Willis, Public Relations

# GRADUATE STUDENT PRESENTATIONS

**1:00 p.m. to 1:30 p.m.**

***Reduplication of the Development and Validation of the Spanish-English Language Proficiency Scale***

Lynne Harris, Communication Disorders and Sciences

**1:30 p.m. to 2:00 p.m.**

***The Nexus Effect: Making Connections for Female Empowerment***

Doreen Bumpus-Lane, Interdisciplinary Studies

***Crafting an Art Song from Scratch***

Emily Joy Sullivan, Music Composition

**2:30 p.m. to 3:00 p.m.**

***Barriers and facilitators for saudi females in the upper leadership positions in higher education***

Naimah Almutairi, Curriculum and Instruction

**3:00 p.m. to 3:30 p.m.**

***The Influence of Students' Perceptions of Writing on Academic Writing Performance***

Kelsey LiPuma, Literacy

***An investigation of the short- and long-term effects of a single neonatal exposure to lithium.***

Kelli Michel, Biology

**3:30 p.m. to 4:00 p.m.**

***English Grammaticality Markings in Bilingual Children with and without Language Disorders***

Jaimie Harris, Communication Disorders and Sciences

***Clinician Bias in the Assessment of Grammaticality***

Brittany Harvey, Communication Disorders and Sciences

**5:00 p.m. to 5:30 p.m.**

***A Study of High School Students' Problem Solving Techniques When Calculating the Area of Irregular Polygons***

Carah Bradford, Mathematical Sciences

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Madison Cole, Mathematical Sciences

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Steve Sturm, Mathematical Sciences

***A College Students Exploration of Isomorphic Numeric and Word Percent Problems***

Emily Tronolone, Mathematical Sciences

**5:30 p.m. to 6:00 p.m.**

***A Study of Middle School and College Students' Mental Mathematics Abilities in Real World Contexts***

Elizabeth Brion, Mathematical Sciences



# **MUSICAL PERFORMANCES**

## **Room S204ABC**

**3:30 p.m.**

### **Fredonia Percussion Guild**

Traditional American Rudimental Drumming & Traditional West African Drumming

Brianna Hoige, Michael Maroney, Cory Shelton

## **REMARKS**

### **Room S204ABC**

**4:00 p.m.**

Dr. Virginia Horvath, President

Dr. Teresa Brown, Provost and Vice President for Academic Affairs

Dr. Jack Croxton, Director of the Office of Student Creative Activity and Research

## **KEYNOTE SPEAKER**

### **Room S204ABC**

**4:15 p.m.**

**Dr. Erion Plaku**

***Fredonia Alumnus and Assistant Professor***

***Department of Electrical Engineering and Computer Science***

***Catholic University***

## **Enhancing Robot Autonomy through Motion Planning**

Erion Plaku is an assistant professor in the Department of Electrical Engineering and Computer Science at The Catholic University of America in Washington, DC. He earned his Ph.D. from Rice University, Houston, TX. He was a postdoctoral fellow in the Laboratory for Computational Sensing and Robotics at The Johns Hopkins University, Baltimore, MD. His research focuses on motion planning and discrete planning for automatic or human-machine cooperative task performance in complex domains, such as mobile robotics, hybrid systems, robotic-assisted surgery, and autonomous underwater vehicles.

**RECEPTION IMMEDIATELY FOLLOWING**

## ABSTRACTS

Please note that the abstracts for the following presentations are located at the end of this listing:

### Dance Performances

#### ***Surveying Monetary Affective Forecasting***

Jacob Abraham, Psychology

Kassam, Gilbert, Boston, and Wilson (2008) define "future anhedonia" as the tendency for people to believe that their future enjoyment of an event would be less than their present enjoyment of the same. They interpreted a mean difference among groups as evidence of belief in future anhedonia. However, such a group difference could be interpreted in at least three ways: (1)future is believed to be less enjoyable than the present, (2)present is believed to be more enjoyable than the future, (3)both the future and present are different from some atemporal hedonic state. We believe that people generally just prefer immediate gratification (i.e., explanation 2) and therefore, judge the "temporal distance from now" of a future decision as important in making predictions about future happiness. We replicated all six experiments in the Kassam article, while adding measures that could differentiate explanations 1 and 2 quantitatively, plus obtained qualitative explanations of the effect. We view future anhedonia as an example of "temporal correction bias" due to "presentism". As temporal distance increases from the present, either forward or backward in time, the event that is further away in the temporal horizon pales in comparison to the instant gratification of now. People do not think that they will enjoy the future event any less than they would enjoy it now, it is simply that their ratings of future enjoyment contain variance attributable to presentism.

Poster Presentation 2:00 p.m. - 2:30 p.m.

#### ***Criminal Justice in Their Eyes Were Watching God and it's Relevance to Today***

Abigail Agbi, Biochemistry

My poster analyzes the social justice issue of criminal justice in Zora Neale Hurston's *Their Eyes Were Watching God*. The situation surrounding criminal justice within the book is analyzed and explained. Then, the issue of the flaws within the criminal justice system is discussed and how it relates to the events going on in society today.

Poster Presentation 5:30 p.m. - 6:00 p.m.

#### ***Mary Louise White***

Patricia Albro, Katryna Pierce, Zach Beaudoin, HollyMcLaughlin, Meghan Berlin, Rianna Seelig, English

For two decades, countless events have been supported by funds donated by Mary Louise White. Since 1998, MLW funds have gone to winners of the MLW Poetry Award, the MLW Fiction Award, and the MLW Creative Writing Award in the English Department. These funds have been present longer for years, and yet, no one had any inkling as to who she was or why she would ever donate such a large sum to our small university. For years, both students and professors assumed she had attended Fredonia as an English major and had greatly enjoyed her time here, thus leading her to donate the money. Quite early in the research process, we discovered this to be a myth; Mary Louise White did not even attend Fredonia University.

We will present photos, newspaper articles, archival research, and documents we have collected on White and her family on a tri-fold. We will explain to observers who she was and why we feel she is so pivotal to the English Department. We will discuss how we found the information, including, but not limited to: archival research revealing her family's presence in the community as well as our own personal interview with her nephew. Our group would like to honor the legacy and generosity of White by giving a presentation on her life from Greensburg to Dunkirk.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***BARRIERS AND FACILITATORS FOR SAUDI FEMALES IN THE UPPER LEADERSHIP POSITIONS IN HIGHER EDUCATION***

Naimah Almutairi, Master in Education Science (Curriculum and Instruction)

The purpose of this study is to examine both the barriers and facilitators for women leadership in Saudi Arabia. The research question guiding this study is what are the barriers and facilitators for Saudi women in the upper leadership positions in Saudi higher education institutions? To answer this question, a quantitative approach was used (online surveys). One hundred and eighty four online surveys were sent to female leaders in four public universities in Saudi Arabia for the purpose of this study. Fiftieth responses were collected and the return rate was 27.17%. The findings of this study showed that Saudi women leaders in higher education institutions perceive no barriers at social and individual levels. However, there are some organizational challenges. The findings of this study also indicated that mentoring, family support and personal efforts are important factors for career success and advancement of Saudi women leaders.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Raising awareness on cardiovascular disease, cerebrovascular accidents and elevated low density lipoprotein levels within Chautauqua County***

Courtney Altman, Psychology

I am currently working with the Department of Health and Human Services on the CHQ250 initiative. The goal is to raise awareness of cardiovascular disease, cerebrovascular accidents and the dangers of having elevated low density lipoprotein

(LDL) levels. Because I am a senior psychology major with a double minor in public health and communication disorders and sciences I chose to work with my mentor Breeanne Agett on this project to broaden my knowledge of the public health field. My mission was to create infographics on both cardiovascular disease and cerebrovascular accidents to educate Chautauqua County, along with making an educational poster on LDL cholesterol and how to improve it. I learned a lot about what is necessary to inform, empower and educate a population of people on important health issues. I truly believe that these infographics and educational poster will help to empower Chautauqua County residents to make a change.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Fredonia/Dunkirk Asset Map***

Mia Augustini, Shannon Schwarberg, Social Work

The purpose of an asset map is to include all physical institutions in the area that people can benefit and receive services from. The Asset Map is easy to read and includes all services that are beneficial to those visiting and living in the community.

Oral Presentation 1:00 p.m. - 1:30 p.m.

### ***Sustainable Development***

Zach Beaudoin, English/International Studies

My poster, "Sustainable Development," demonstrates students' power to transform their campuses, SUNY System, even the world through engaged scholarship.

I have used my enhanced global citizenship and applied-learning skills to inspire change on campuses and in surrounding communities. Prior to my experiences with the UN, I convinced SUNY Fredonia to adopt the Sustainable Development Goals. I also led conversations with SUNY System about how the adoption of the SDGs can further the System's mission.

This poster demonstrates this arc of change—how my work at SUNYSA brought me to Paris and how I am now bringing back the COP21 message to the SUNY System: that only through collective buy-in can change be truly successful, and that universities play a crucial role. As the nation's largest university system, SUNY can offer the leadership needed for the continued human, scientific, technological and economic advancement and protection of our natural resources.

Poster Presentation 1:30 p.m. - 2:00 p.m.

### ***Early Intervention Program Internship***

Connor Bell, Communication Disorders and Sciences

As a part of my public health minor I did an internship with Chautauqua County's Early Intervention Program. This relates to the administrative side of my field of interest, speech pathology. I organized policies, a rolodex, updated an early intervention contact list, and did a presentation on google documents for professionals in the county. I created an early intervention contact list and answered questions about the said document via email. I also created and ran a presentation showing professionals how to use google documents. Through the early intervention contact list I was able to link people to needed personal health services. Different agencies now have an easier way to contact professionals. I also was able to evaluate effectiveness and accessibility through the early intervention contact list, policy binders and, rolodex. Different agencies now have an easier time finding out the availability of professionals in the area.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Overweight America: Predicting Obesity Through Statistical Analysis***

Richard Belz, Psychology

Obesity is a major health problem in the United States. Data was analyzed from the Youth Risk Behavior Surveillance System, managed by the Centers for Disease Control and Prevention (CDC). The aim was to identify the impact of race (White, Black, Hispanic and Multiple Races) and region of the country (North, South, Midwest and West) on the prevalence of obesity in a state. A Two-Way Analysis of variance (ANOVA) model was used with the predictors race, region, and the interaction term for race and region. The results suggest race has a significant impact on obesity levels in a particular state, and that the interaction of race and region is also significant. Analysis of this data contributes to the body of research of obesity in the United States, and points to areas where further research would be beneficial and points to possibilities for implementation programs where help is most needed.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Perceptions of Service Providers About Emerging Adults After Incarceration***

Richard Belz, Mia Augustini, Psychology

Emerging adulthood is a distinct period in human development from ages 18 to 25 marked by ambiguity and identity exploration, particularly in industrialized societies. This has important implications, particularly in the prison population. Interviews were conducted with service providers about re-entry programs, including the goals of a program, how goals are implemented, and the effectiveness of such programs. Themes from the interviews were found using grounded theory and were analyzed. Implications for effective reentry and reintegration are considered.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Measuring Sexual Aggression-Related Implicit Theories: Belief in The Unknowability of The Opposite Sex***

Richard Belz, Elayna Kinney, Psychology

The theorized implicit theory (IT) that the opposite sex is fundamentally unknowable is the belief that the opposite sex is inherently different from one's own sex and differences cannot be understood by the opposite sex. The current study was a preliminary attempt to validate self-report scales of ITs that women (WFU) and men (MFU) are fundamentally unknowable. Undergraduates responded to an anonymous online survey including pools of 30 items each written to assess WFU and MFU. Exploratory factor analysis was used to identify a coherent subset of items from the two pools to create psychometrically consistent scales to assess WFU and MFU. Correlations between the resulting scales and the correlate measures noted above were assessed for initial indications of construct validity. Implications of results and suggestions for future analyses are discussed.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Indigenous Food Justice: Post-NAFTA Food Sovereignty and Anti-Neoliberal Inspired Resistance Movements in Rural Mexico***

Nicole Berger, International Studies and Political Science

On January 1st, 1994 the North American Free Trade Agreement (NAFTA) had officially been implemented. While the Zedillo administration celebrated the first step to a more hospitable relationship with the U.S. and Canada, the Ejército Zapatista de Liberación Nacional (EZLN) rebellion erupted in Chiapas. Issuing the First Declaration from the Lacandon Jungle, the EZLN or Zapatistas declared war on the Mexican government. Shaking the assumed security of the Mexican government, the Zapatistas succeeded at uncovering the instability of the administration and its unabashed abuse of human rights on a global scale. Demonstrating strong grassroots affiliations as well as the ability to form resistance conflict to the state, these rebels spotlighted that food security, globalization, the interdependence of economic-social-cultural indigenous rights, and conflict are interconnected.

Oral Presentation 2:30 p.m. - 3:00 p.m.

***Violence towards women of color in Their Eyes Were Watching God***

Nathalie Bermejo, International Studies

For this project I will be examining the way Zora Neale Hurston used her novel to address violence towards women of color. I will then consider how much progress American society has made on this issue since the publication of the novel in 1937.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Smart Solutions for Smart Cities: Automated Patient Handling For Disasters***

Anatoliy Biliciler, Computer Science

This project involves extending the implementation of a system to automate the process of patient handling and processing in mass disasters involving scores of injured victims using location aware algorithms over wireless network.

The MEDTOC system has been designed by Dr. Zubairi for management of patients in a mass disaster situation. The system consists of four computer programs in C and Matlab that work together for location aware placement of patients in hospitals near the disaster zone. This project involves a student at the undergraduate level in the integration of all the computer programs and setting up the hardware to enable the full functionality of the system. The student would work under the supervision of Dr. Zubairi to extend the MEDTOC for new experiments.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Women Roles in "Their Eyes Were Watching God"***

Daquella Blacks, Music Industry

I will be examining the role of the female characters in Zora Neale Huston's "Their Eyes Were Watching God". I will be showing how the main character Janie combated how society believed a female should act.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Speaker Identification: The Right Anterior Temporal Lobe and Acquired Recognition Disorders***

Holly Blied, Communication Disorders and Sciences

The ability to recognize a familiar person relies on successful name, voice, and face processing. Brain damage to the right anterior temporal lobe can cause deficits in processing important visual and auditory information regarding speaker identification. Neuroimaging and theoretical models have been used in an attempt to understand the role of this cortical area in recognizing faces and voices. Prosopagnosia is a type of visual processing deficit that affects only recognition of the face. Phonagnosia is an auditory processing deficit that affects voice recognition. Both prosopagnosia and phonagnosia can have consequences on an individual's ability to identify a speaker,



sometimes causing significant impairments in social interactions. Gainotti challenged the literature regarding agnosias and other recognition disorders involving more than one sensory mode, and examined how the right hemisphere ATL carries out the functions necessary to pinpoint who is speaking and how to properly label a patient when those functions fail.

Poster Presentation 2:00 p.m. - 2:30 p.m.

### ***Translational Regulation of the grk mRNA during Drosophila Oogenesis***

Joshua Blundon, Anthony Tardibuono, Molecular Genetics

Gurken (Grk) is an essential morphogen that is responsible for axis determination during *Drosophila melanogaster* oogenesis. Spindle-B is an enzyme involved in DNA double-strand break repair. In *Drosophila* that have a *spn-B* mutation, the ATR/Chk2 meiotic checkpoint is activated. This checkpoint phosphorylates an RNA helicase, Vasa, specific to *grk* translation. Ultimately, canonical cap dependent translation cannot occur under these circumstances. Translation of some mRNAs can be mediated cap independently by recruitment of the ribosome via an Internal Ribosomal Entry Site (IRES). Via SHAPE analysis on the 5' UTR of *grk* we have shown that there is a high degree of secondary structure present, a main characteristics of known IRES structures. In addition, site directed mutagenesis has been performed to sequentially delete regions across the 5' UTR. Luciferase reporter constructs have been made to test the translation efficiency of the *grk* 5' UTR both in vivo and in vitro.

Poster Presentation 1:30 p.m. - 2:00 p.m.

### ***Ancient Roman vs Victorian/ Gender Binary***

Anna Booth, Bridget Doyle, History

We will be comparing the pre-modern binary in the Roman context, and the Victorian era binary in the modern context. We will be looking at the variation of gender expression, and how that impacted society.

Poster Presentation 2:30 p.m. - 3:00 p.m.

### ***Winning in the NHL***

Taylor Bourne, Mathematics

Does having home ice advantage in the NHL playoffs provide a better chance at winning the series? Data from the 2013, 2014 and 2015 NHL playoffs was collected and used to create a steady state matrix? Using the article "Simeon Poisson and the National Hockey League" by Gary M. Mullet (1977) and following the model to determine if the model presented is still relevant in today's NHL.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Analysis of baby names in the US***

Taylor Bourne, Mathematics

Using the name, number of times the name was used (count), year and if the baby was male or female from kaggle.com I looked at what factors go into the popularity of names in the US and descriptive analysis of some of the popular names in America.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***A Study of High School Students' Problem Solving Techniques When Calculating the Area of Irregular Polygons***

Carah Bradford, Mathematics 7-12

This study investigates student preferences of approaches and techniques used when solving for the area of irregular polygons. Specifically, it explores students' problem solving techniques by analyzing the chosen method for calculating the area of an irregular polygon.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Affective Forecasting & Decision Making***

Teresa Braun, Stephanie Ahearn, Rebecca Kohl, Psychology

It is part of human nature to have a clear preference for our present selves over our future selves. We see this being played out in everyday life, such as when we procrastinate large projects or make the decision to partake in an activity whose consequences are delayed, such as drinking alcohol. This phenomenon has in the past been attributed to people under-emphasizing the importance of their future emotions (Kassam et. al., 2008). Perhaps a more reasonable explanation is one put forward by Gilbert and colleagues: that people overemphasize the importance of their current emotional state (Gilbert et. al., 2002). Living in the twenty-first century, we are accustomed to immediate gratification; this may have a larger impact than first imagined on how important our current emotions are when making decisions about future events. In the present study, we are examining the effects of current emotional state (positive or neutral) on the accuracy of judging future happiness to a future event. We accomplished this by incorporating mood manipulation before a judgement task. Participants will be randomly assigned to view either a happy video or a neutral video clip. Then participants will begin the judgement task which involves playing a fake lottery game in which they were assigned to either win or lose. Next, participants judge their likelihood of winning during a follow up session as well as their perceived happiness if they win

the second time. Participants played the lottery in an initial trial, and were asked how happy they would feel if they were to win in our lottery during the next trial. Participants then played again during a later second trial, with lottery tickets that had been fixed by the researchers so each participant would win a small amount during a second trial. This was for the purpose of knowing how accurate their initial predictions of happiness were.

We hope to show that participants in a positive mood will have less accurate predictions of future happiness than will participants in the neutral mood state.

Poster Presentation 2:00 p.m. - 2:30 p.m.

### ***Choose Blue***

Jennifer Breau, Psychology

Colorectal Cancer is the second leading cause of cancer deaths of both men and women in the United States. When tested early about 90% of people can live 5 years or more upon diagnosis. Unfortunately approximately 23 million people, a ratio of 1 in 3 adults aged 50-75 are not being tested as recommended. The Chautauqua County Cancer Service Program has set out to change this statistics and offers testing for colon cancer for community members. We have established a goal to have 80% of adults aged 50 and older to be regularly screened for colon cancer in Chautauqua County by 2018. To do so we created an initiative and worked with the local police to share our message. Our project involved informing, educating and empowering individuals about health issues, mobilizing community partnerships, linking people to needed personal health services, and developing policies and plan that support individual and community health efforts.

Poster Presentation 2:00 p.m. - 2:30 p.m.

### ***Model European Union A Conference and a Learning Experience***

Patrick Brierley, Political Science

The Fredonia Model European Union club recently went to Brussels, Belgium and participated in a mock European Union simulation. This presentation is a summation of all of our experiences as well as additional research done on the European Union itself. Additional research done for the proposal includes work on immigration law in various European Union countries. The actual project/presentation itself includes a discussion of the subjects discussed at the conference and additional research done into the actual subject material itself. The subjects researched includes such issues as the Syrian refugee crisis and streamlining European Union taxation policies.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***A Study of Middle School and College Students' Mental Mathematics Abilities in Real World Contexts***

Elizabeth Brion, Mathematics 7-12

This study examines the thought processes used by middle school and undergraduate students to mentally solve in-context mathematics problems. It is hypothesized that non-major undergraduate students will use more efficient mental strategies than middle school students to solve in-context arithmetic problems, though both undergraduate students and middle school students will have equal accuracy. It is further hypothesized that both undergraduate students and middle school students will not feel confident in their mental computation abilities, which may affect their accuracy.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***Music and Movements***

Deanna Buley, Music Industry/Women's and Gender Studies

Music and social justice have always been connected. Since its creation, music has been a form of expression that has been used to promote ideas, positions, and movements at large. The research blog series, "Music and Movements," will be examining and analyzing how music, identity, and social justice have been linked through major events including: the different waves of feminism, war protests, MOGII liberation, and the blues era.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Abuse, Identity and Social Mobility***

Deanna Buley, Music Industry/Women's and Gender Studies

Intersectionality: all aspects of a persons' identity interconnect and cannot be examined or deconstructed individually. The idea that humans and their identities are far too complex and overlapping to be looked at separately applies to each of us in our everyday lives. Often, people with various marginalized identities are not granted the same agency and social mobility as others with more privileged identities. By using Zora Neale Hurston's novel, "There Eyes Were Watching God," we can better understand marginalized individuals' experience in the United States and how the intersections of class, race, gender connect to the cycle of abuse and social autonomy.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***The Nexus Effect: Making Connections for Female Empowerment***

Doreen Bumpus-Lane, Interdisciplinary Masters

The Nexus Effect describes the ways that organizations can find common ground in diverse cultural environments by building connections/bridges that span cultural diversity. The development of these connections can enable the formation of strategic collaborations that will overcome the difficulties that hinder successful completion of mission statement/goals. In the local geographic area of Dunkirk/Fredonia, New York, the socioeconomic situation for females requires an approach that encompasses the value and richness of the area's diversity in order to lift the local female population out of its distressed living situations in order to better experience financial stability and to participate in the accumulation of wealth. To address this, consideration of the local nonprofits, academic institutions, and resources of the local municipal government(s) were examined to determine what existing connections could be further developed, and where additional connections could be formed to assist the local female population.

Poster with Video Presentation 1:30 p.m. - 2:00 p.m.

***Links Between Hostile and Benevolent Sexism, Belief in a Just World, Rape Myth Acceptance, and Cultural Gender Role Beliefs in a Female Hispanic Sample***

Sara Butler, Psychology

Previous research has indicated associations between Rape Myth Acceptance (RMA) and Benevolent Sexism, and between Hostile and Benevolent Sexism. These studies further imply that the link between RMA and Benevolent Sexism may be mediated by an individual's Belief in a Just World (BJW), but have seldom examined females exclusively. By analyzing levels of Benevolent and Hostile Sexism, RMA, and BJW in a Hispanic, female sample, the current study aims to add to existing research, and is unique in that it targets a specific demographic. It is hypothesized that within this sample, a significant association will be observed between Hostile and Benevolent Sexism, and that each of these dimensions will be associated with increased RMA. In addition, BJW is expected to augment this relationship, and correlate with Benevolent Sexism. These associations are expected to be more strongly observed in women who hold beliefs more consistent with traditional Hispanic gender roles.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Lateralized Priming and Recognition of Genuine Smiles***

Sara Butler, Samantha Scalise, Jennifer Kramer, Psychology

According to the Right Hemisphere Hypothesis facial affect processing in general is largely lateralized to the right hemisphere of the brain. In contrast the Valence-Specific Hypothesis suggests that the processing of negative facial affect is lateralized to the right hemisphere while positive facial affect processing is lateralized to the left hemisphere. In order to provide support for either of these hypotheses participants completed tasks meant to prime one hemisphere or the other and then completed a task requiring them to identify genuine or fake smiles. It is expected that if the Right

Hemisphere Hypothesis is supported positive facial affect processing will be improved by priming of the right hemisphere. If the Valence-Specific Hypothesis is supported this processing will be improved by priming of the left hemisphere.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***A comparison of male prostitution in Florence, Italy and Victorian England***

Cassandra Campagna, James Terracciano, Childhood Inclusive Education

For this proposal we will be comparing and contrasting male prostitution during the pre-modern and modern binary. Our presentation will mostly focus on male prostitution in Florence, Italy and Victorian England and how prostitution differed greatly in both places.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Systems of Support for Emerging Adults After An Incarceration***

Benjamin Carlson, Courtney Smith, Psychology

Much of the qualitative research on reentry and reintegration specifically focuses on the experiences of the ex-offender. Very few studies examine the experiences of the service providers whose role is to help with reintegration to the community. Even fewer studies compare the viewpoints of ex-offenders to service providers regarding the process of getting the ex-offender back into the community. It was found that perceptions towards provider services were significantly different between the two subject pools. Ex-offenders described their family and friends as their central support system, whereas service providers believed support should come from other forms of mentors. It should also be noted that both groups believed younger ex-offenders (18-29 year olds) formed decisions off their present situation, disregarding future consequences. In order for ex-offenders to better transition successfully into their community, perceptions towards the role of the service provider should be equally understood by all parties involved.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Challenging Masculinity and Femininity through a Transgender Non-binary Lens***

Graham Caulfield, BFA Theatrical Production and Design, Minors in Visual Arts and New Media & Women's and Gender Studies

The dominant narratives of masculinity and femininity have been socially constructed throughout history from a cisgender point of view and with the widespread embracing of non-normative gender identities, these narratives do not accurately represent the

expressions and identities of these communities. Transgender and non-binary people must look past these dated notions of gender and create their own language and ideology to reframe both masculinity and femininity into a theory that applies.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Waxman's Algorithm for non-Hermitian Hamiltonian Operators***

Sarah Chamberlain, Physics

D. Waxman created an iterative convergent algorithm for Hermitian Hamiltonian Operators that allows one to solve for its bound state eigenvalues and eigenvectors without matrix diagonalization. This Algorithm was later modified using Green's Method, allowing for a quicker convergence.

Recently, non-Hermitian Hamiltonian operators have begun playing an important role in certain fields of physics. One example is optical model calculations in Nuclear Physics. Gamow shell model description of weakly bound systems in nuclei with a larger number of neutrons involving configuration mixing in a single particle Berggren basis was recently specified. The Berggren basis has resonance and non-resonance continuum states and contains bound single particle states. But, the Hamiltonian in this basis is non-Hermitian.

Green's Method may be applied to both Hermitian and non-Hermitian Operators, thus in this approach of Waxman's algorithm, it is expanded to non-Hermitian Hamiltonian Operators.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Feminism in Zora Neale Hurston's "Their Eyes Were Watching God"***

Benjamin Chatley, Social Studies Education/History

I will be examining Zora Neale Hurston's *Their Eyes Were Watching God*, and comment on elements of feminism within the novel. I will continue my examination of the novel by comparing the elements of feminism from the novel written in 1937 to the 21st century American life.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***Nutrition and Marketing within Public Schools***

Jessica Chatt, Exercise Science

My internship for public health concerns the health and nutrition involved in cafeterias at two schools: Chautauqua Lake and Sherman Central School district. I chose this because it relates to my major, Exercise Science. The main objective was to create surveys for both the students and the faculty on what could improve in the cafeterias.

My personal goal was to keep the food nutritious while giving the people what they wanted. Once the questionnaires were created, survey monkey was used to get the surveys out to the people who go to both the schools. From this research we hope to find what will promote sales, as well as following the nutritional guidelines provided by the state. From this research done as an intern, I learned a lot about conducting research specifically with surveys and the proper way to interact with subjects of a study.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Evolution of Sodomy Laws from the Middle Ages to Modern United States***

Alyssa Clark, Michelle Nagle, English & Gender studies

Alongside the rise of Christianity came changing social codes regarding that which is acceptable or pure. Religious doctrines dictated that any sex act performed without the intent to procreate was sinful, shameful, and deserving of punishment. The name given to such acts was sodomy. The increasing power of the Christian church in the Middle Ages ensured this ideology a presence in laws of government. Laws against sodomy have persisted throughout time from the Middle Ages to the modern United States.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***Bonnie++: Analysis of Linux and Windows Performance***

Adam Clouthier, Jacob Kohler, Ralph Bohall, Computer Science

Our project involves investigating and comparing the performance capabilities of two different types of operating systems: Windows and Linux. The project utilizes the tool Bonnie++ to monitor and gather data about the activities of each OS. We then will evaluate the data obtained from Bonnie++ and report our analysis and findings.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***A Study of College Students' Understanding of Composition Functions***

Madison Cole, Mathematics Education 7-12

This research examines students understanding and ability to work with composition functions in different representations. It is hypothesized that non-major college mathematics students will struggle when solving composition functions given algebraic functions, tables, graphs, and word problems.

Poster Presentation 5:00 p.m. - 5:30 p.m.



## ***Seres, Espíritus, y Misterios: The Secret Religion of the Dominican Republic and Racial Identity***

Darlene Cruz, International Studies/ Political Science

### Abstract

According to multiple sources, the predominating religion of the Dominican Republic is European-centric Catholicism, many censuses claiming that over 90 percent of the population identify themselves as purely Roman Catholic. While this is by no means inaccurate, it glosses over the hidden reality of an essential part of Dominican culture, that being that a large part of the 90 percent are not singularly followers of European Catholicism, but a religion that encompasses a mixture of not only European Catholicism, but also predominantly contain West African influences as well as containing aspects of indigenous, Taino, people's belief. A combining of religion that began during the era of colonization. This mixture is usually referred by scholars as Folk Catholicism, which again ignores and devalues the influences of the other cultures to this religion. This raises a dilemma, when such important factors are ignored not only by the researchers and scholars, but also by the practitioners and followers, the ignorance and denial enables for the influences of the non-european cultures and traditions to be forgotten or ignored. The hidden religion of the Dominican Republic is a large part of the Dominican culture and personal identity, involved in many rites of passage for Dominican people, such as life, marriage, and death (Duany, 90.4). According to the Journal of American Folklore, even the practitioners unwillingness to call themselves anything other than Catholic, exemplifies an Anti-African, and pro-European purism, mindset held by a large portion of Dominicans, of their unwillingness to acknowledge their non-european ancestry, mainly their African Identity, and demonstrating a discontent with being anything other than European. In my research I would like to discuss in depth the intricate religion of the Dominican Republic, its origin and effect on everyday society, and finding the correlation between this mysterious religion with the racial/ cultural identity of the Dominican people.

Oral Presentation 3:00 p.m. - 3:30 p.m.

## ***Effects of Race and Gender on Perceptions of Intelligence and Aggression***

Katelyn DeChard, Taylor Kunkes, Psychology & Sociology

There has been a great deal of research focusing on how gender or race may impact perceptions of intelligence or aggression, but little research examines all of these factors together. A 2X2 between-subjects mixed factorial design was created in order to determine if any relationship exists. Participants read one of four vignettes, each featuring either a Caucasian male, African-American male, Caucasian female, or African-American female, and then answered questions derived from the Buss-Perry Aggression Questionnaire and the Sternberg Conceptions of Intelligence Questionnaire. It is expected by the researchers that African-American males will be perceived as more aggressive, followed by Caucasian males, African-American females, and Caucasian females respectively. It is expected that Caucasian females will be viewed as most

intelligent, followed by Caucasian males, African American females, and African American males.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Queerness in Christianity: Past vs. Present***

Timothy Densmore, Kaitlin Tachibana, Media Management

Our proposal is a poster that will highlight Christian attitudes toward queerness (e.g. male homosexuality, lesbianism, transgender-ism) in the past versus Christian attitudes toward queerness today.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Zora Neal Hurston's Their Eyes Were Watching God and Social Justice in the Court Room***

Rebekah Denz, History

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to observe the author's concerns about the injustices that happen during a criminal trial. I will then explain how the American justice system has progressed since Hurston wrote her novel in 1937.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***Using Technology to Benefit an Office***

Sarah Dix, Communication Disorders and Sciences

I chose the internship at the Chautauqua County Early Intervention and Preschool Program because it pertains to both my Speech Pathology major and Public Health minor. My mentor is Denise Nichols, the Early Intervention Supervisor. The purpose of this internship was to create a more organized, manageable, and modernized office for the Early Intervention Program. Which results in linking people to needed personal health services and making sure people can attain services that are necessary. I contributed by making program policy binders easier to navigate, condensing and de-cluttering a Rolodex of contacts, arranging an educational presentation for employees regarding Google Drive, and developing a Google spreadsheet with updated contact information of local service providers. This internship gave me a closer look at what it's like to work in a professional environment. I have learned how to put ideas into action that will help benefit others in the future.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***"Wings of her own"***

Patrice Douglas, Social work

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on Gender roles. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937."

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Engaging in our Community Series: Student Association Community Relations Committee***

Bridget Doyle, History and Political Science

Fredonia Student Association has been proud to support the Community Relations Committee to aid our community and campus life. Our student leaders involved in the committee have aided in projects such as the annual Easter Egg Hunt, community trash cleanups, and Habitat for Humanity. We are honored to support student leaders and groups with an interest in community service.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Parents' Experiences in a Community-Based Dialogic Reading Program***

Delaney Dretto, Sydnee Worth, Psychology

Research conducted over the past 30 years has demonstrated the effectiveness of dialogic reading in facilitating young children's language development. The present study examined parents' experiences in a community-based dialogic reading program with their preschooler aged 2-5 years, as well as their perceptions of their child's learning from the program. The study sample of 52 parent-child dyads was divided into two groups: a lower income sample and a higher income sample. Main themes identified in the parent interviews post-intervention included Positive Impressions of Program, Liking Program Structure, Challenges with Program Execution, Liking when Child Showed Learning or Ability, Enjoying Time with Child, and Finding Appropriate Time to Read. Themes related to perceptions of the child's learning included Vocabulary, Child Self-Regulation, and Social-Communication Skills. Results are discussed with regard to recommendations for further research on dialogic reading and community-based interventions using dialogic reading.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Distribution of Myosin Heavy Chain Isoforms in Single Hybrid Muscle Fibers***

Mark Dudek, Geraldo Biber, John Martin, Jeffrey Polanco, Caitlyn Minihane, Biology

Our current understanding of skeletal muscles is that they are composed of multiple different motor units which work together for locomotion, respiration, and thermoregulation. To support these different functions, it is understood that these motor units are composed of different fiber types expressing different isoforms of myosin heavy chain (MHC). In some cases co-expression of two or more of these isoforms results in hybrid muscle fibers with intermediate contractile properties. Understanding how these myosin isoforms are organized within the fiber is important for an understanding of muscle physiology and defines a basic construction of muscles. We use a combination of single fiber SDS PAGE and immunohistochemistry with whole muscle sections to assess the nature of hybrid fibers. These approaches provide complimentary assessment of the hybrid fiber component in muscles. In some cases, we can identify longitudinal changes in the MHC isoform expressed within single fibers. In others, multiple MHC isoforms appear to be 'blended' within the same myofibrils. These patterns suggest that these changes in fiber types occur commonly in single skeletal muscle fibers and may be prevalent in growing or transforming muscle fibers.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Gender Roles: Men and Women In Society***

Matthew Eisen, Social Studies Education

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on the idea of gender roles in every day society. Throughout history, men and women have had different responsibilities in society, and these responsibilities are sexist and ignorant. Zora Neale Hurston proves that a female can be just as strong if not stronger than any male.

Poster Presentation 3:30 p.m. - 4:00 p.m.

### ***The SHAPE of an IRES***

Cory Emborski, Allison Martin, Biochemistry

Located in the 5' untranslated region of some mRNAs, internal ribosome entry sites or IRESs allow translation through a cap-independent mechanism, bypassing the need for m7G cap recognition by translation initiation factors. IRESs are very common in viral mRNAs and are the primary means in which they hijack host translation machinery, but are also present in some vital eukaryotic mRNAs that need to be translated when cap-dependent initiation is inhibited. An IRES has been proposed in the *Drosophila gurken* 5' UTR, that through functional studies has shown to play this role. We use selective 2' hydroxyl acylation analyzed by primer extension (SHAPE) chemistry to map the 5' UTR of the *Drosophila gurken* mRNA. SHAPE chemistry relies on the reactive 2' hydroxyl present on RNA to covalently attach a bulky substituent that blocks primer extension by

reverse transcriptase. By monitoring these additions the secondary structure of the UTR can be mapped.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***The Rising Problem Of E-Waste***

Christian Felser, Computer Science

When you upgrade to a new device, you don't think about the kind of work that goes into breaking down and reusing the components of what you have left behind. From the increasing use of devices in third world countries, and our own need to constantly have the next best thing, we are left with a source of waste that is growing rapidly. My poster will look into the problem of E-Waste, and talk about possible solutions to this ongoing problem.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Are Partnerships Truly Equal?***

Ana Figueroa, Sociology

I will be examining the way that the novel *Their Eyes Were Watching God* examines the unequal role between African American women and their partners

Poster Presentation 1:30 p.m. - 2:00 p.m.

***How does Zora Neale Hurston use her novel, Their Eyes Were Watching God, to comment on intersections between race and gender?***

Juliet Filosofos, Social Work

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on intersections between race and gender. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***What your pictures say about you: The effects of photo context on personality judgment***

Meghan Flynn, Nicholas DiSarno, Daniel Spinner, Psychology

College students were given a series of photographs along with questions pertaining to the person in the photographs' personality. The photographs were in three different contexts: self-taken ("selfie"), headshot, and group photograph. The six characteristics traits that we included with each photograph were: self-esteem, friendliness, attractiveness, intelligence, manipulation, and aggressiveness. We believe that the male and female participants, will rate their own gender more harshly than the opposite gender. We also hope to see a difference in characteristics for each context. We anticipate that the headshot photographs will be perceived as more intelligent, and the group photographs will have a higher rating in friendliness. In the age of social media, the information may be applied in everyday life, so that people are perceived more positively, especially when it comes to potential careers.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Black Womanism: Intersectional Racial Oppression Represented in Zora Neal Hurston's novel "Their Eyes Were Watching God"***

Allegra Freier, History

I will be examining the way that Zora Neal Hurston used her novel, *Their Eyes Were Watching God*, in order to comment on black feminism and the intersectional issues black women face. I will then consider how much progress American society has made (if any), since the novel was written in 1937.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Lesbian Identity Within the Pre- Modern Gender Binary Through Contemporary Society***

Allegra Freier, Rachel Vaughn, History

My partner and I will be examining the way romantic friendships between women were classified within a pre-modern context, and how history shapes the identity of lesbianism through modern society. The poster will focus on a western European cultural standpoint.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***SUNY Model European Union simulation 2016***

Sarah Fuller, Journalism

Every other year, SUNY MEU groups meet for a conference in Brussels, Belgium. There, students run meeting simulations, taking on the persona of the politician they are representing. It's an educational experience like no other, giving students a chance to travel abroad and work with international students.

Poster Presentation 2:00 p.m. – 2:30 p.m.

***"Choose Blue" Colorectal Cancer Initiative***

Kali Fyock, Public Relations/ Minor Public Health

As a Public Health minor I received an opportunity to be involved in an internship with the Cancer Service Program of Chautauqua County. Through this internship I learned how to create and implement a health proposal. My supervisor wanted to show the local community the importance of colorectal cancer screenings during the month of March, colorectal cancer month. This is an important health initiative because colorectal cancer is becoming one of the leading cancers that cause death. A proposal was created and presented to local police departments on why they should join the pledge to have 80% of men and women over the age of 50 screened by 2018. Throughout this experience I have learned that mobilizing community partnerships is key when proposing a health initiative. This is because once you have one community partnership you have ten more because your idea spreads through different departments and other local businesses.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Alternative Break Program: Service Learning & Community Engagement***

Jeannie Galbraith, Social Work

The Alternative Break Program at The State University of New York at Fredonia (ABP) promotes service-learning through direct public service across communities within the United States. This program seeks to heighten social awareness, enhance and encourage personal growth, and advocate for lifelong social action. The ABP participants seek to learn about, as well as comprehend, underlying causes of social problems, and in doing so seek social change and social equality. We strive to create and foster community partnerships between SUNY Fredonia and our community. ABP is not attached to course credit to ensure the genuineness of the Program. This proposal will highlight the intense service of over 30 SUNY Fredonia students in two different states, and how the communities have been benefited from our service.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***Women Representation in STEM fields as Depicted in Animated Movies***

Francesca Gerace, Public Relations and Women's and Gender Studies

My study is a part of my Women's and Gender Studies capstone class, "Gender and Social Change". The primary topic of my research project is the representation of

women in science, technology, engineering, and math fields (STEM) as depicted in animated movies. Since animated movies are mostly targeted towards children in the U.S. (with some obvious exceptions), the depiction of the male characters versus female character's occupational setting acts as a "how-to" guide for children to help them aspire to what they want to be when they grow up. So, I want to analyze certain characters in animated movies that work in what look like STEM related settings (scientists, doctors, engineers, etc...) and see if there is a correlation between how these characters are represented in movies and the statistical lack of representation of women in STEM fields in real life. To gain the comparative aspect of real life representation, I want to gain the perspectives of real women working in STEM fields and see if their experiences in any way reflect how characters similar to their identities and occupational fields are represented in film.

Poster Presentation 3:30 p.m. - 4:00 p.m.

### ***Living and Learning Communities: The Honors House***

Julianna Grabowski, Kenneth Starr, Music Education/performance

As the Fredonia Honors House interns for two consecutive years, we have learned about the purpose and benefits of having a "Living and Learning Community" in a campus setting. We have explored ways in which a living and learning community can enhance students' academic and social experiences at the college level. Our research is based on our experiences in planning Honors House events and our interactions with the Honors House students.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Cloud Computing, Environmental Impact, and Green Computing Solutions***

Shannon Grajek, Computer Science

Cloud computing is the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer. Network-based cloud computing is rapidly expanding as an alternative to typical office-based computing. Cloud computing is a highly accessible and cost-effective infrastructure for running HPC (high performance computing) and web applications. However, the growing demand of cloud structure has increased the energy consumption of data centers, which has become a critical issue. High-energy consumption not only becomes high in operational cost, but it reduces the profit margin of cloud providers, and also leads to high carbon emissions, which is not environmentally friendly. Using energy-efficient solutions (green computing) leads to minimizing the impact of cloud computing on the environment. In this work, we will identify some cloud computing practices that contribute to the total energy consumption and show possible solutions through green computing.



Poster Presentation 2:30 p.m. - 3:00 p.m.

***Perceptions of Law Enforcement and Civilian Interactions as a Function of Race and Gender***

Brittany Graw, Holly Spain, Emily Lavin, Allison Reding, Psychology

Based on current events, we wanted to investigate how people perceive law enforcement officer and civilian interactions. There have been several cases of public outrage accusing the legal system of being unjust, due to racial prejudices. We were particularly interested in how the gender and race of the law enforcement officer and the civilian would impact people's perceptions when reading about an altercation. In our study, we created a scenario involving an altercation between a law enforcement officer and a civilian, which resulted in the civilian being shot. We altered the gender (male, female) and the race (black, white) of the law enforcement officer and the civilian, resulting in a 2x2x2x2 factorial design. After participants read one of the sixteen possible scenarios, we assessed the amount of blame placed on the law enforcement officer and civilian. We predicted that when there was a discrepancy between the race of the law enforcement officer and the civilian, there would be greater blame placed on the officer than the civilian, especially when the officer was white and the civilian was black. In addition, we predicted that when there was a discrepancy of gender, there would be greater blame placed on the male than on the female. We will be sharing the results at the conference.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Downton Abbey: The Edwardian Period to the 1920s***

Colin Gray, Bridget Cook, Melissa Taylor, Venessa Anania, Allie Marcy, English

We're conducting a period study of early 20th century Britain, in specific 1914 to 1924. Downton Abbey is a British show written by Julian Fellowes. It revolves around a pantheon of characters living on Downton Abbey estate ranging from the servants up to the Lord. Their struggles include women's rights, class separation, courtship rituals and changes in fashion and music. There's an aesthetic culture to the show, which we'll cover through food and architecture.

We will have a poster as a visual aid. To relay the aesthetics of our foci and Downton Abbey itself, we will make use of a television provided to run a powerpoint of other visuals. We will have audio of period jazz and Romantic Era music to relay an early 20th century Britain atmosphere. We plan to have interactive "plates" where our audience can read about the typical rituals of food.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***CRISPR Mutagenesis of the gurken 5' Untranslated Region***

Brian Guy, Molecular Genetics

The goal of this project is to find the possible Internal Ribosomal Entrance Site (IRES), hypothesized to be located in the 5' Untranslated Region of the gurken mRNA, found in *Drosophila melanogaster* (fruit flies). The IRES location will be found using CRISPR mutagenesis, a recently developed technique that allows for mutations to be generated at specific locations in the DNA. Multiple locations along the gurken 5'UTR were targeted for mutagenesis, and if one of these locations contain the IRES, then the IRES activity will stop. Currently, this project is concerned with finding fly lines that have successfully undergone CRISPR mutagenesis, meaning they contain mutations at their targeted area.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***English Grammaticality Markings in Bilingual Children with and without Language Disorders***

Jaimie Harris, Speech-Language Pathology

This study examined the grammaticality of spontaneous language productions in a group of 54 Spanish-English bilingual children with and without language impairments. Although both typically developing (TD) bilingual children and bilingual children with language impairments (LI) make grammatical errors, this study investigates whether the type of errors in English differentiate typical versus atypical language. Previous research has found that bilingual children with LI make more tense errors than their TD peers (Blom & Paradis, 2013; 2015, Jacobson & Schwartz, 2005). In this study we examined spontaneous language productions. Our results suggest that TD children overregularize more often than children with LI, but tense did not present as a clinical marker to differentiate the two groups. Overall children with LI have a higher percentage of ungrammatical utterances in comparison to their TD peers. Understanding English grammaticality errors presented in bilingual children will promote appropriate identification of language disorders in this population.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Reduplication of the Development and Validation of the Spanish-English Language Proficiency Scale***

Lynne Harris, Speech-Language Pathology

As the demographics of the country are changing, there is a need to use valid and reliable assessment tools. The aim of the current study was to establish the validity of the Spanish-English Language Proficiency Scale (SELPS) is a measure to determine the level of English language proficiency in bilingual children by attempting to reduplicate the initial study results.

Story retell language samples were collected and analyzed using the SELPS rating scale as well as the Systematic Analysis of Language Transcripts (SALT) software. The scores from the SELPS were then compared to the language sample measures. This study found that there are significant correlations between language sample measures and the SELPS subcategories of syntactic complexity, grammatical accuracy, and lexical diversity. No significant correlations were found for verbal fluency. The significant correlations indicate that the SELPS seems to be an accurate assessment tool for English proficiency for typically developing individuals.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Clinician Bias in the Assessment of Grammaticality***

Brittany Harvey, MSc. Speech-Language Pathology

The purpose of the present study was to determine the impact of bias and experience on the assessment of grammaticality in children. More specifically, our study aimed to evaluate whether clinicians' grammaticality judgments (grammatical vs. ungrammatical) of various language samples was influenced by pretesting information provided to the clinician prior to marking. Bias as a factor was introduced by assigning grammatical, ungrammatical, and "ambiguous" statements, distributed amongst four cases, to 37 'experienced' speech pathology students (graduate) and 37 'inexperienced' speech pathology students (undergraduate). Through random distribution, half of each group received pretesting information prior to each case that indicated the child had 'typical' language development or 'atypical' language development, while the remaining half remained blind to the language status of the child. The results indicate that while there were no statistically significant results for blindness and "ungrammatical" judgments for cases that indicated the child had 'typical' language development, there was a significant difference between the percentage of "ungrammatical" utterances for cases that indicated the child had 'atypical' language development.

Poster Presentation 3:30 p.m. - 4:00 p.m.

### ***Shakespeare's 400th Anniversary Celebration***

Alanna Hazard, Maria Wild, Sara Melchiorre, Kristina Smith, English/History

This year marks the 400th anniversary of William Shakespeare, celebrated by universities, communities, and theaters worldwide. In celebration, we're involving the Fredonia campus in our capstone project, generating interest towards Shakespeare in a fun manner while educating areas of study he continuously impacts. We've reached out to student clubs and departments to conduct various events. A survey circulated throughout campus will be featured in the student newspaper, The Leader. A Library exhibit will feature Shakespeare's works, a timeline of his life, and activities for students' enjoyment. Student clubs, including Englishworks and Writers Ring, intend on making their meetings Shakespeare-themed the week of celebration. Finally, a Roundtable

Discussion will include participants from an array of departments. Our research consists of examining Shakespeare over several lenses, emphasizing paradigms he influences centuries after death, including Shakespearean influence throughout different cultures, how Shakespeare's women impact modern feminism, and gender roles in Shakespeare.

Poster Presentation 1:30 p.m. - 2:00 p.m.

### ***Healthy Eating and Participation in School Cafeterias***

Carissa Hebert, Public Relations

As a public health minor, it's a passion of mine to help improve the health of those around me. I completed an internship with Heidi Ottawa from Sherman and Chautauqua Lake Central School Districts to develop theme days to increase participation in cafeterias, as well as create displays and literature to promote healthy lunch choices. I researched USDA dietary recommendations and created a brochure to compare my findings to popular foods, such as Lunchables and Gatorade, while also providing options for healthy alternatives. Through my research I found that nutrition labels use marketing tactics to trick consumers into believing that their product is healthy. Labels can claim 0g of trans fat, while their ingredient list contains partially hydrogenated oils (trans fats). Overall, my experience has helped inform, educate and empower parents and children to make healthier food choices.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***The Legacy of Black Feminism***

Tyra Henson, English

Black Feminism highlights the intersections of gender and race. The experiences and struggles that women of color face are inherently different than those of different racial and gender identities. Pivotal works from the black feminist movement, *Black Girl Dangerous* by Mia McKenzie and *This Bridge Called My Back* by Gloria Anzaldúa and Cherríe Moraga discuss these differences while shedding light on the ways these differences create unique experiences for women of color. Using these texts as a foundation for research, this project looks to tell the story of today's woman of color. How has the fight for racial and gender equality evolved? How has it stayed the same? The Mothers of Black Feminist thought have left their legacy, how will the new generation continue what they have started?

Poster Presentation 5:00 p.m. - 5:30 p.m.

### ***MIOCENE TUFF OF BONELLI HOUSE, NW ARIZONA: PETROCHEMICAL CONSTRAINTS ON MAGMATIC PROCESSES AND COMPARISON TO UNDERLYING PEACH SPRING TUFF***

Zakkary Hess, Geology

The 17.72 ± 0.01 Ma Tuff of Bonelli House (TB) (Ferguson & Cook, 2015; Regula et al 2015) is a pair of ignimbrites that overlie the 18.8 Ma Peach Spring Tuff (PST) in its well-known exposures around Kingman, AZ. We conducted a geochemical and petrographic investigation of TB aimed at elucidating its petrogenesis and evaluating a possible relationship to the PST, the product of a supereruption (Ferguson et al, 2013; Pamukcu et al 2013). The TB contains ~5% phenocrysts (alkali feldspar >> plagioclase; trace biotite, quartz, apatite, Fe-Ti oxides, zircon, chevkinite); PST has a very similar assemblage, but a much higher phenocryst abundance (most outflow ~5-20%, up to 35%, mafics more prominent; Ferguson et al 2013, Ferguson & Cook, 2015, Barry et al 2015). Alkali feldspar in the TB is more sodic than that in PST (mostly anorthoclase, Ab58-69, vs sanidine, Ab40-45, SEM-EDS analysis). Whole-rock elemental chemistry of TB and typical PST outflow (XRF) documents distinctive similarities: SiO<sub>2</sub> of TB 72-74 wt%, PST 73-76 wt%, low Sr (TB 30-90 ppm vs. PST 10-100 ppm) and Ba (<50 ppm vs 10-200 ppm). Zr is high in both, yet higher in TB: 500-900 ppm vs. ~200-300 ppm. TB Zr/Sr ranges from 5-27, high compared to ratios in other regional Miocene volcanics in the region (most < 5; Metcalf 2004) and in typical silicic igneous rocks (most < 1; Miller et al 2014), but consistent with the ratios in PST outflow (3-22; Frazier 2013; Barry et al 2015). The high Zr/Sr suggests unusually high temperatures for a highly silicic magma. Zircon saturation thermometry (Boehnke et al 2013) based on glass compositions (SEM-EDS, LA-ICPMS) indicate a TB temperature prior to eruption of 820-850°C compared to pre-eruption T indicated by PST outflow of ~750°C (Pamukcu et al 2013). Rhyolite-MELTS further constrained the TB pre-eruption temperature to ~830-875°C, whereas MELTS suggests PST outflow T ~740°C (Pamukcu et al 2013). The PST marks a shift from trachytic to rhyolitic magmatism, apparently coinciding with an increase in magmatic temperatures (McDowell et al 2014). Data for TB reveal distinctions between TB and PST that appear to rule out a simple petrogenetic connection between these two ignimbrites, but petrochemical fingerprints suggest important similarities in process corresponding to the onset and aftermath of supervolcanism.

Poster Presentation 2:00 p.m. - 2:30 p.m.

### ***An Analysis of Fire Protection Deficiencies: Dunkirk, NY Fourth Ward***

Zakkary Hess, Jocelyn Lash, Lucas Bauer, Geology

The deficiencies for fire protection are graphically shown in the Fourth Ward of Dunkirk, New York, with use of a map created using an open source GIS (QGIS) of the water mains both normal and high pressure. The fourth ward is eligible for funding from the Community Development Block Grant Program (CDGB) through the department of Housing and Urban Development (HUD), thus deficiencies shown in the area could be fixed with funding given there is evidence of these deficiencies. Many streets in the Fourth Ward are 3-inch and 4-inch mains which do not provide sufficient flow for fire protection. The map shows these streets as red lines labeled, "No Fire Protection."

Some of the streets that have these insufficient pipe sizes are Lord Street, Kosciuszko Street, Maple Avenue, and portions of many other streets. Due to about 40 percent of the Fourth Ward having undersized pipes, it is important that the area be targeted with programs to receive funding for larger pipes to provide sufficient fire protection in all Fourth Ward areas.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Feminism, Psychology, and Counseling***

Nina Houck, Psychology

Feminism, Psychology, and Counseling is a traditional research paper for the Women's and Gender Studies Capstone course. This paper takes a close look at the relationship between counseling and feminism as it has been historically, as well as the current landscape. The paper includes an analysis and critique of areas where improvements and advances toward social justice may be made in the field of psychology, with a focus on counseling in particular.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Transgender Evolution***

Caiden Igoe, HughDean Blake, Music Education

We will be comparing the term transgender within the ancient times to the modern definition that we have today through power-points. The slides will contain pictures and definitions explaining both time periods of the term.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***Characterization and Mapping of Novel Mutations in Drosophila***

Paige Jacobs, Alexandria Mandriota, Molecular Genetics

Novel mutations were generated in *Drosophila melanogaster* that are responsible for the suppression of the mutated *spn-B* gene's lethal ventralized oocyte phenotype. The location of the generated novel suppressing mutation in two of the created lines, CA121 and CR324, is unknown. Recombinant fly lines were created from these two master suppressor lines through the recombination of the WT third chromosome and the third chromosome of a fly homozygous for the *spn-B* mutation. Characterization of particular regions of the recombinant's chromosome as originating from the WT chromosome or the master suppressor chromosome can be concluded based on the indel or SNP locations. From this information, and by comparing recombinant lines that suppress versus those that do not suppress, haplotype maps of each recombinant will be created. This will allow for the narrowing of the potential region containing the suppressing mutation.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Using Hadoop for Big Data Analytics***

Nicholas Jacobs, Computer Science

Hadoop is an open-source framework used for storage and processing of large data sets. It utilizes computer clusters - a group of connected computers, called nodes, using synergy to complete tasks that is not feasible to complete on a single computer. Hadoop consists of two parts: a storage part (HDFS, or Hadoop Distributed File System), and a processing part (referred to as MapReduce). By splitting up and distributing large files across cluster nodes, Hadoop is able to process information faster than traditional methods.

This project aims to introduce the core concepts of Hadoop, and the advantages that Hadoop provides for storing and processing data sets. Some case-studies will be considered.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***INTERNATIONAL STUDENTS' PERSPECTIVE IN AMERICA***

Dongjin Jung, Psychology

Foreign students in Western countries often have trouble adjusting to the informal nature of the locals. Another complaint is that domestic students are always so busy that they find it difficult to make friends with them. Foreign students are mostly from cultures which are quite different (Khoo, 1994). The writer had a survey for international students and asked about difficulties or cultural differences in U.S.A.. It treats about international students feeling and emotion in U.S.a..

Poster Presentation 3:30 p.m. - 4:00 p.m.

***The Comparison of Language Acquisition Skills in Children from Low Socioeconomic Schools in Belize, Central America and Chautauqua County***

Olivia Kaltenbach, Communication Disorders and Sciences

The basis of this project was to look at the impact of living in a low socioeconomic status (SES) has on the development of language skills in children. Experiences during 2 trips for the Belize Service Learning Project and an internship at a local, rural low-SES school revealed similarities and differences in both populations for the acquisition of language skills. Review of research articles, evidence-based practice, and the development/implementation of activities, allowed for analysis of a whole-person perspective relating to the field of Speech-Language Pathology.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***Recrystallized Olivine Grain Size Showing Tectonic Emplacement History of Ultramafic Rocks in the Blue Ridge Mountains of Western North Carolina***

Sierra Kaufman, Geophysics and Geochemistry

The peridotites in the Blue Ridge metamorphic suite were formed from the collision of an island arc and North America during the Taconic orogeny. The dominant theory on the formation of the Ashe Metamorphic suite is that it was previously an ophiolite suite. The emplacement history from the oceanic lithosphere to the crust on North Carolina however, is not well understood.

In order to obtain a more detailed emplacement history, we sampled several of the bodies exposed in western North Carolina for microscopic textural analysis and found the grain sizes and textures varied. Using the average recrystallized grain size in each, we calculated the emplacement paleo-stress conditions using the recrystallized olivine piezometer and found the Daybook body to average at approximately 13 MPa, the Frank body 20 MPa, and the Webster-Addie body 16 MPa. Different paleo-stress and textures observed in nearby bodies indicate they could record different emplacement conditions.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***It's the rule, shots before school!***

Kaitlind Kaylor, Psychology

As a public health minor, I am dedicated to providing effective and empathetic care to individuals within the community. I have been interning at the Chautauqua County Department of Mental Hygiene developing a wellness passport targeting low social class families to aid in documenting and recording important medical information. In order to get a parent's perspective on this important documenting tool, I traveled locally to run parent focus groups and workshops. This information was then collaborated with existing public health data to revise the wellness passport and to make changes accordingly. It is our intention that by identifying and analyzing public health data we can provide parents with research based tools that will increase public health awareness within the community and will ultimately help diminish the spread of preventable infectious disease.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Lograsso Heath Promotion Internship***

Rachel Kaziyev, Psychology -Public Health Minor



I worked as an intern for Lograsso Health Center with the nurse practitioner Deb Dibble, along side another classmate Anna Prince. This internship was a great opportunity to explore possible career paths and begin my journey as a professional in the field of public health. Many young adults make poor decisions that impact their safety, health, and well-being. Many lack the understanding and knowledge to change these behaviors. To address this issue, I researched various health related topics and created interesting, informative brochures to promote the health of fellow students. We distributed brochures and health related goodie bags by setting a table up on campus and interacting with students walking around campus. Overall the experience was positive. I learned how to promote health in a creative way, inform educate and empower students on health issues and link people to needed services at Lograsso.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***HIV/AIDS Positive Gay Men: Resources and Problems within a Marginalized Population***

Margaret Keefer, Psychology

People that have HIV/AIDS are faced with many problems whether it is social, mental, or health related. These problems are worse for men that have the disease who also identify as gay. During the height of the AIDS epidemic in the United States gay men were often blamed for the introduction and spread of the disease. They faced persecution and were looked down upon in society. It is important to take a look and see if these issues still exist and what programs are in place to help these men get better and live a healthy life.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Characterization of a Microbial Biofilm in Canadaway Creek***

Michaela Kinney, Zachary Grieco, Joseph Bunge, Kevin Nickerson, Molecular Genetics

Biofilms are common, naturally occurring communities of microorganisms. Biofilms can be found in many diverse environments from thermal springs in Yellowstone National Park to Canadaway Creek in Fredonia. Previous work has suggested that the bacteria in the Canadaway Creek biofilm have a role in the cycling of iron and other elements. Genomic DNA was isolated from the biofilm so we could use a molecular approach to identify what bacteria are present. Using the Polymerase Chain Reaction (PCR), the 16S ribosomal RNA gene sequences were amplified and then isolated. We are planning to sequence selected 16S rRNA genes to determine what organisms are present in the biofilms and their possible role in iron cycling. We are also planning to use Fluorescent in situ Hybridization, a type of microscopy, to visually determine how prevalent certain populations are in the biofilms.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Zora Neale Hurston- Social Justice***

Adam Klajbor, History

I am proposing a poster that looks into Social justice in "There Eyes Were Watching God" by Zora Neale Hurston. Especially looking into the way the book demonstrates social justice and how it has progressed today.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***SCALE Initiative Research***

Michaela Lee, Business Administration Management

Through the Cattaraugus County Health Department, I worked with internship coordinator Kate Ebersole on the SCALE Initiative (Spreading Community Accelerators through Learning and Evaluation). This internship interested me because I excel at research and finding solutions to problems. I conducted research on various assignments given to me by Kate Ebersole. I created condensed analyses of data and research in order to give recommendations to the SCALE teams on how best to approach situations and issues. Recommendations helped give the team a better understanding of specific aspects of the community and were used in the implementation of SCALE programs. Through this work I learned ways to use analyses and trends to find solutions for issues in a community. This work is in accordance with the Public Health Essential Service to research for new insights and innovative solutions to health problems.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Visual versus Non Visual Geometry***

Dylan Leitner, Mathematics 7-12

This study explores understanding regarding pictorial geometry problems. Specifically, it investigates shortcomings students experience when solving visual and non-visual geometry problems. It is hypothesized that college students given an assessment composed of isomorphic geometry problems that are visual and non-visual will score lower on non-visual problems.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Independent Study Abstract: SURC & OSCAR***

Victoria Levy, Communication Disorders and Sciences

This study examines the effect of how experience with perceiving pitch variations at the sentential level (English), or at the syllabic level as in tone languages (Shona), and also musical experience influences speech perception. Tone perception in adults is influenced by experience with the phonological inventory of one's native language. In this study, the focus is on investigating if there are differences in perceiving tonal distinctions in Native English speakers with different musical experience. Each participant was given two sets of 120 paired stimuli to discriminate. The first stimuli set consisted of bisyllabic Shona words. These pairs had the same segments but had the same or different tones. Participants also had to determine if the pitch patterns in filtered homologues of the bisyllabic stimuli were the same or different. The hypothesis was that participants who had musical training would have a greater accuracy than those who did not. The results revealed that participants who have musical experience performed significantly better than those without.

Poster presentation 1:00 p.m. to 1:30 p.m.

### ***Designing of Inventory Management System Using Open Source Object-Oriented Languages***

Michael Lewis, Computer Science

This research work involves creation of an inventory management system that employs a remote server built-in open-source PHP-language to interact with MySQL database. The client-side part of management system is designed in OOL C# along with windows-based forms to insert input data. The server-side part verifies identity of user with valid username and password. Upon matching input information of pertinent user, server generates random number that is used as token. The token is hashed and stored into a table in the database along with a time-stamp for initiation and expiration of a session for a client who is going to interact with a restful API. The non-hashed random number is returned to client-side, which must be provided for next transaction prior to the expiration time.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Big Data in the Music Industry***

Tylyce Lewis, Computer Science

Big data has changed many industries, giving them the opportunity to find answers that enable cost reductions, time reductions, new product development, and many more. Big Data has had an amazing impact on the Music Industry especially. In the early 2000's, the only way that one can receive new music is by buying the artist album, CD, or even the artists cassette tape. However, due to technology advances the way in which the

music industry works has changed. From illegal downloading to streaming services, big data has helped the music industry develop a better relationship between listeners and music in even more creative ways, as well as give detailed information about when, how, and where one is listening. In this work, we discover how some of today's most popular streaming services such as Spotify and Pandora have drastically altered music distribution and artist discovery using big data, and how unstructured data is manipulated into structured data to give the services what they want.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Race vs. Class: How America Believes that Racism has ended***

Kanard Lewis, Audio/Radio

"I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on on race and class because people tend to separate these two, or better yet people love to think that racism doesn't exist. They do this because they believe that it's a class issue. This dichotomy between these two topics really sets the foundation of how racism has become more institutionalized in America. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Webcomics: Bridging the gap between print and digital media***

GiAnna Ligammari, BFA Animation/Illustration

You've probably seen snippets of webcomics (comics created specifically for release on the internet) shared before on social media. The internet is invaluable for artists who would otherwise fall under the radar of publishers. Whether the artist is female, male, transgender, telling stories of culture, hobbies, or even just their day, webcomics help facilitate a free, instant way to publish content, find dedicated fans, and innovate using storytelling elements that aren't possible just with printing. Unfortunately, critics and professionals find it hard to take this digital comic free-for-all seriously. While technology creates exciting potential, the internet lacks filter. Anyone can post a content, gain a following, and there are no publishers in the way to approve or reject content. As a young female artist who has grown up on the internet, I'm looking for a way to bridge the gap between print and digital comics.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***College Degree & Salary***

Lauren Lind, Business Finance

Each year, tens of millions of Americans make choices about higher education. Entering into college is an overwhelming and time consuming process, and choosing a degree that one is not only passionate about but also gives a good financial return can be challenging. Data collected from College Scorecard gives insight into the performance and outcomes of students at over 7000 U.S schools. This information allows for families and students to better assess which institutions will best prepare them to achieve their goals. In this research I assess college degree type & the median earnings of students 6 years after enrollment. Specifically, I am using regression analysis to gain a better understanding of which degrees have the highest rate of return compared other degrees and to the overall cost of the institution. I also take a deeper look into SUNY Fredonia's rate of return on specific degrees.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Success in Students & in Youth with Barriers***

Lauren Lind, Business Finance

At the State University of New York at Fredonia, two departments are collaborating to conduct exploratory research on the impact of experiential learning on success, or perceived impact, post-graduation. The partnership between business and leadership is unique due to the fact that leadership falls under the purview of student affairs. A partnership between divisions has allowed for the significant sharing of knowledge and resources. Specifically, the departments of business and leadership studies are examining hands-on classes, clubs and internships. Our research is grounded in Kolb's Model of experiential learning, which underscores the importance of concrete experiences and taking time to reflect and process these experiences. Thus, our surveys have focused on identifying skills that students believe are essential to success after graduation and how classes and clubs have developed the skills that students deem important. Additionally, we have interviewed internship supervisors to identify the skills that they seek when hiring a college graduate and explore how a supervisor's determine what makes an intern successful. We have also partnered with Chautauqua works to help our research and aid youth with barriers in becoming successful. Throughout our research project, both undergraduate and graduate students have assisted us with tasks such as entering data into SPSS and Dedoose as well as testing surveys that were developed from our research meetings. Our findings have implications that will impact teaching, club involvement and the fields of management and leadership. Specifically, we have found that students are taking away different skills from participating in clubs versus classes.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***The Influence of Students' Perceptions of Writing on Academic Writing Performance***

Kelsey LiPuma, Literacy, Birth-Grade 12 (Graduate student)

This study aimed to understand fourth grade students' perceptions of writing, including knowledge of writing, attitude towards writing, and self-efficacy related to writing. These perceptions of writing were then compared to students' overall academic writing ability in order to determine the relationship between perceptions of writing and writing performance. Understanding this relationship is valuable in determining possible factors influencing academic writing development and in developing effective pedagogy to address those factors.

Oral Presentation 3:30 p.m. - 4:00 p.m.

***Studying the Enforcement of Romance Within the Black Community***

Nalani Love, Communication

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on heteronormativity and amatonormativity within the black community.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Performance Evaluation of 802.11ac WLAN with RADIUS***

Daniel Luong, Samuel McCagg, Computer Science/Applied music

In recent times there has been tremendous advancement in Wireless Local Area Network (WLAN) Technology. Wireless networks have become the defacto communication method used by most people due its ubiquitous nature. 802.11AC is one of current wireless communication technologies deployed by most organizations. It provides high bandwidth compared to its predecessors (802.11a/b/g/n). Wireless Networks by virtue of their characteristics are more prone to security attacks compared to wired networks. To this end, a lot of organizations in their attempt to protect their wireless networks require users to authentic themselves before being granted access. One of the authentication protocols used my most enterprises is the Remote Authentication Dial-In User Service (RADIUS).

With the introduction of security in communication networks, portions of the bandwidth is used for processing security functionality. This results in users having access to less bandwidth as a result of the extra overhead by the security protocols.

In this project, we study the performance of 802.11ac networks when RADIUS is used. In particular we investigate the extent to which security overhead impacts the performance of WLANs.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***MOGII Representation in Television - The Degrassi Chronicles***

Clark Maegan, Visual Arts & New Media

My project focuses on the representation of the MOGII (Marginalized Orientations, Gender Identity, and Intersex) community in television shows. I am looking at the show Degrassi in particular to see how the representation has changed over the years. Included in my research will be a survey that I'm conducting to look at how representation has changed people's views who watch Degrassi or other television shows with MOGII characters or plots.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Increasing Health Literacy at The Chautauqua Center (Dunkirk)***

Melissa Mallay, Biology

My goal at The Chautauqua Center in Dunkirk is to increase health literacy within the Chautauqua community by creating brochures and monthly bulletin boards with the guidance of Rebecca Ruiz. These brochures will be a resource to inform and educate patients about the services that Federally Qualified Health Centers (FQHC) must offer. After the closing of the Chautauqua Health Department, there has been an increase in college-age patients for STI/STD testing at FredASSIST clinic due to access to care barriers in Chautauqua County. By the conclusion of this internship, I will create guides on what services FQHC's can provide to assist the community in a period of transition. I will also assess the results of the campaign by interviewing Rebecca Ruiz and analyzing what percentage of patients know their rights in an FQHC

Poster Presentation 1:30 p.m. - 2:00 p.m.

### ***Endangered Species Analysis***

Sara Marszalkowski, Applied Mathematics

We are currently faced with the greatest rate of species extinction worldwide since the disappearance of the dinosaurs 65 million years ago. This report intends to predict number of threatened species by year with a regression model using annual global surface temperature, world population, forest area coverage (sq. km), carbon dioxide emissions, and number of pesticides used globally as predictors. The variables were assessed to evaluate which, if any, most helps to predict number of threatened species. Furthermore, given threatened species data by region of the world from 2015, an ANOVA model was used to test for significant differences in mean by region. From this, conclusions were drawn about which regions have the highest and lowest means, and which differences are significant.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***A Case for Music Therapy with the Elderly: A Public Health Internship***

Brianna Matson, Social Work

As the elderly population increases, so does the amount of people in institutionalized care. While nursing homes and assisted living facilities do their best to be stellar for their residents, there are still gaps that are apparent. Being a social work student in the public health field, I wanted to find a way to improve quality of life among residents. I researched depression and dementia rates, and the impact music therapy has on those rates. Partnering with a music therapist, I then used this information to create a presentation for the Board of Directors at the WCA Home in Fredonia to advocate for adding a music therapist to staff.

Through this project, I learned creative ways to help our aging population. I was able to experience researching in a public health field, as well as informing and educating people about a public health issue.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***Habitat for Humanity Club: Students Engaging in Service***

Shane Meenaghan, Early Childhood and Childhood Education with Biology

The purpose of Habitat for Humanity is to instill hope and stability into the community. Chautauqua Area Habitat for Humanity provides housing for working low income families. Student volunteers will aid in awareness of it's mission, building homes, fundraising, and advocating members to join the cause. Our poster includes projects we are involved in such as restoring and building houses in the local community.

Poster Presentation 3:00 p.m. - 3:30 p.m.

***St. Columban's Speaks***

Molly Mellott, English

English Works, the organization I am the president of visited St. Columban's in Fall 2015 to run a journaling program with the senior citizens. We gave them journals to write in and gave them prompts to write about such as what their biggest change was when they moved to St. Columban's or places they've traveled to or pets they've had.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***The Heart's of St. Columban's***

Molly Mellott, Joyce Smith, English



For my very first program as a Resident Assistant, I had my residents decorate Valentine's cookies for the senior citizens of St. Columban's. The next day, we took all the cookies to St. Columban's where we passed them out to the seniors and made Valentine's with them. Joyce Smith is also a mentor involved along with the Colleen listed above.

Poster Presentation 5:00 p.m. - 5:30 p.m.

### ***Project Senior***

Molly Mellott, English

For my Critical Reading class we had to do a large research project relating to the material we have read in class. I decided to interview the seniors and staff members of St. Columban's about some of the topics raised in class based off of the books we read. One of the books we read was called "Super Sad True Love Story" and it raised the question of immortality. I wanted to ask the senior citizens about this along with staff members. I also asked questions about their lives because I thought it was relevant material to have. I recorded each interview in either a voice recording or video and posted everything on a Facebook page called Project Senior. After I completed the interviews, I analyzed my data in Facebook posts on the page.

Poster Presentation 5:30 p.m. - 6:00 p.m.

### ***Differences in gender based on preference in research of victims or offenders***

Ernesto Mercado Irizarry, Caitleen O'Connell, Psychology

Of sexual offense and abuse tends to focus on either victim experiences or offender characteristics. After reading much of the literature in this domain it seems intuitively plausible that there are is a gender split in investigators who conduct victim-focused versus offender-focused research, and that this split mirrors traditional gender roles: we hypothesize that victim-focused research studies are more likely to be conducted by female investigators and offender-focused studies are more likely to be conducted by male investigators. Following a thorough search of recent peer-reviewed research published in these two domains we will categorize studies as primarily victim- or Offender-focused or incorporating both foci, then compare proportions of male and female primary researchers in each of these groups. Results will be discussed in light of gender roles, gender norms, scientific subcultures, and other factors.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***An investigation of the short- and long-term effects of a single neonatal exposure to lithium***

Kelli Michel, Biology

Lithium is the first-line treatment for bipolar disorder. The age of onset of this disorder coincides with reproductive years in women. Therefore, women may need to take lithium throughout pregnancy, and expose the fetus to lithium in utero. We used a neonatal mouse model to investigate the effects of fetal exposure to lithium. Neonatal mouse pups were randomly assigned to receive saline or a single lithium (3 mEq/kg) injection on postnatal day 7 (P7). Body weights were measured daily. Righting reflex and walking initiation testing was conducted through P21. Cognitive performance was assessed using the Morris water maze after P30. Previous results showed a trend toward disruption in learning/memory after a single lithium exposure. The results of this study add to that data and suggest that brief exposure to lithium during the fetal/neonatal period has no significant impact on normal growth and development, and does not cause long-term memory impairment.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***Through Her Black Eyes***

Cassandra Moise, Medical Technology

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on how black women are seen in the eyes of society. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***The Chautauqua Health Department's Impact on the Community***

Tanisha Morrison, Criminal Justice and Sociology

My research tends to focus on the closing of the Chautauqua Health Department. I focused on how people will be accommodated in regards to their health services and how the closing of the health department impacts the community. I compiled information from both the Chautauqua Center and the Chautauqua Health Department to propose solutions about how they can improve. I contacted the Chautauqua Health Department and no information was provided. A possible solution to the closing of the Chautauqua Health Department is the Chautauqua Center, which serves as a one stop shop patient center for individuals. Students have expressed real concerns about privacy at this center. This poses a barrier towards individuals seeking healthcare from there. Most students and community members preferred the Chautauqua Health Department, because it served as a safety net. However, students and community members will now be forced to go to the Chautauqua Center.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***The Effect of Live Music, Weather, and Sporting Events on the Sales of a Western, NY Bar***

Frank Moynihan, Economics

This study examines a Western New York Bar with an extensive range of consumer choices. There lacked consistency in daily food and drink sales from week to week which led to the interest of finding indicators that better predict the outcome of sales per day. Data from the restaurant's computer system included a report of quantity and total dollar sales per item per day. The study represents an attempt to create a multivariate regression model to help predict food and drink sales based on the following predictors: temperature (F), precipitation, holiday, live local music, live national music, and local sporting events. Live local music and holiday variables were found to be large positive indicators in both food and drink sales.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Fredonia Enactus Projects 2015-2016***

Delia Napolitano, Rebecca Painter, Kaitlyn Leichter, Rachel Moreno, Joshua Hayes, Mary Plum, Political Science

Fredonia Enactus strives to better our community through entrepreneurial action. We will be presenting on legacy projects as well as our three new projects, AgriMobile, EDGE Consulting and ADValue that have impacted our community economically, socially and environmentally.

Oral Presentation 1:30 p.m. - 2:00 p.m.

***Masculinity***

Ahou Marlene N'guessan, Social Work

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on masculinity. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937

Poster Presentation 5:00 p.m. - 5:30 p.m.

***What is Music Therapy?***

Tara O'Brien, Music Therapy / Psychology

So many of us have heard of music therapy, but do we really understand what music therapists do? This presentation will provide a brief overview of what music therapy is and how it can be used to effectively treat several different populations. A Q&A will follow.

Oral Presentation 5:00 p.m. - 5:30 p.m.

***We Were There Too! Women Soldiers in the American Civil War: How Three Brave Women Defied the Social Norm and Joined the Army***

Kali O'Day, History

History overlooks a branch of women who served their country just as bravely as men. Sarah Edmonds, Loreta Velazquez, and Sarah Wakeman. They defied the social norm at the time by disguising themselves as men to serve as soldiers. Indeed, women served just as bravely as men in battle, so bravely in fact that their fellow comrades did not think twice that it was a woman they were serving with. They went above and beyond the call of duty, often times taking on dangerous jobs that men did not want to do, such as spy work. These women had an unwavering loyalty and patriotism to "the cause" and proved that they could do a man's job, therefore proving that they were equal to men on the battlefield.

Poster Presentation 3:30 p.m. - 4:00 p.m.

***British Immigration Politics***

Daniel Orzechowski, Political Science & Journalism

This research is part of a larger project involving many students collaborating with Dr. Caviedes to analyze the depiction of immigrants through newspaper articles in Italy, France, Germany, Spain, and the United Kingdom. Immigrants are often linked with issues such as crime and security among individual countries. The research presented will be based off of newspaper stories dealing with immigration authored by The Daily Telegraph, a London newspaper. Dating from the beginning of 2014 to the end of 2015, 280 articles were used in this study. This research uncovers the relative frequencies of common issues in the British press. Specifically, this study is used to compare whether immigration is more often correlated to economic implications rather than security among these countries.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***People Inc Group Home Intern***

Sarah Palumbo, Communication Disorders and Sciences

I chose to do an internship through People Inc to gain experience working with individuals with special needs. This agency is in the human service field, which in the future is a field I hope to work in. The minor of public health also pairs with this internship because of service and care that is provided to these individuals, linking them to needed personal health services and assuring the provision of health care. My work with individuals depended on their abilities and needs, much individualized. The experience was positive without a doubt. I feel lucky to have been able to intern at such a wonderful non-for profit organization.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***The dark tetrad personality traits in predicting sexual coercion and aggression in female students***

Brooke Park, Taylor Kozuch, Jacquelyn Wertel, Psychology

The dark tetrad, a cluster of self-serving personality traits (narcissism, Machiavellianism, psychopathy, sadism) has been found to predict sexual aggression and coercion in males. Some research has also found this relationship in females though this literature is not as well developed, and the relationships among these predictors in women have not been explored. Female undergraduate students were administered an online survey including measures of the dark tetrad and self reported sexual aggression and coercion. Associations between individual dark tetrad scales and measures of sexual aggression/coercion will be assessed followed by exploration of relationships among dark tetrad characteristics in their impact on sexual coercion. Results will be discussed in light of public perception of gender and aggression as well as prevention of sexual coercion.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Zora Neale Hurston on Social Justice Issues***

OliviaRose Patterson, Public Relations

I will be examining Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on social justice issues. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***The intersection of Race and Gender***

Kiera Perkins, Social Studies Adolescent Education

The poster will be comparing the intersection of race and gender is present day and compared to *Their Eyes Were Watching God*.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***Pre-Modern and Modern Interpretation of the Gender Binary***

Ciara Peters, Jennifer Klimeck, Allison Trask, History

In this presentation we will be discussing the transformation of the gender binary, starting from Ancient Greece, to modern times. We will be including The Myth of Tiresias and Kate Tempest's Hold Your Own to support our findings.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***The Changes of Groundwater-Levels in The High Plain Aquifer***

Priscilla Pitt, Mathematics

This report presents information regarding water level changes in the High Plains aquifer from 1950 to 2013. The water level depth in feet (well\_depth\_ft) has quite dropped over the last several years. This implies that the ground water itself is not recharging fast enough to sustain itself. This aquifer is found across eight states, including, Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming. According to the United States Geological Survey (USGS) there is no doubt that the amount of data regarding the water table in all these states has depleted. But, most of all, Texas and Nebraska had the most interesting data concerning their decline in ground water over the last few years.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Effect of Educational Attainment on Poverty Level***

Mary Plum, Psychology

This report aims to study the relationship between educational attainment levels and poverty status, specifically whether one's level of educational attainment can be a significant predictor of their poverty status. This study used a random sample of data from 2010-2015 samples collected from the University of Minnesota's Integrated Public Use Microdata Series, Population Survey. The data was analyzed using descriptive statistics as well as logistic regressions.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Distributed BACI***

Benjamin Pospula, Tamara Normille, Computer Science

Using Distributed BACI we will implement an advanced program that requires synchronization and coordination.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Complexity of Complexion***

Titanya Preddie, CDS

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to bring light to the social issues of color and complexion within black communities. With this, I will consider the progress American society has made on this issue since Hurston wrote her novel in 1937.

Poster Presentation 1:30 p.m. - 2:00 p.m.

### ***Internship at the Student Health Center to Promote Community Health***

Anna Prince, History

This semester I have had the opportunity to participate in an internship to fulfill credits for my minor in public health. I acquired the position of the Student Health Center Promotions Intern at the Student Health Center in LoGrasso Hall. My internship was comprised of creating materials such as brochures and posters that cater specifically to college students about various health topics that can affect their health. I was then involved in distributing the information and having direct contact with students and the community about ways to promote health. This internship has allowed me to develop many skills that will be useful in my future in the area of public health such as interpreting information and developing better public speaking skills. Not only did this internship fulfill requirements in my field of study, but also allowed me to develop important skills that I can use later on.

Poster Presentation 5:30 p.m. - 6:00 p.m.

### ***The History of Lesbianism***

Selena Ragland, Samantha Owen, Biology

We would like to look into the history of lesbians in the context of ancient Greece, Rome, and Christianity. We will be comparing the lesbian sexuality in three different time periods: ancient times, 19th century, and the 21st century. We will be discussing the gender binaries and their relevance, as well as societies views of women during these times.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Mental Health Awareness Month***

Amanda Reed, Psychology

As an intern through the Chautauqua County Department of Mental Hygiene in Mayville, New York, it is my job to assist my mentor, Victoria Patti, with the preparation and planning for Mental Health Awareness Month in May. This internship not only supplements the knowledge I have obtained as a psychology major, but allows me to incorporate my background in a public health setting. The goal of my work is to apply what I've learned to the outside world in order to inform, educate, and empower local communities to learn about mental health strategies, while eliminating the negative stigma associated with mental illness, in the process. To do this, I relayed information, about how to maintain mental wellness and provide easily accessible public mental health education by placing a display in a popular viewing location. As a result, this informed the public on how to manage stress and achieve mental wellness.

Poster Presentation 1:30 p.m. - 2:00 p.m.

### ***The Pre-Modern Binary vs. The Modern Binary***

Lexi Reyngoudt, Sebastian McAfee, Audio/Radio Production

The presentation will include a poster showing the differences between the binary before the 19th century and the binary after the 19th century. We will show examples from the Greek, Roman, and Renaissance eras for the pre-modern binary. For the modern binary, we will show examples from the 1800s, 1900s, and 2000s.

Poster Presentation 3:30 p.m. - 4:00 p.m.

### ***Gender Bias and Social Stigma in Body Modification***

Kia Richman, Psychology

For my research project I would like to examine the history and evolution of body modifications and their impact on society. More specifically, I will examine how where specific modification practices originated, how those practices spread over time, how each modification is viewed by society in terms of stigma, stereotypes and deviance, and how they have both represented and reinforced gender roles. In order to gain the information I desire I will first research the history of body modifications, as both a general and delving into specifics once I begin to notice trends or significance regarding representation of gender. I plan to define what body modifications are and briefly mention all the different types of body modifications that there are. Most specifically I will focus my research on piercings, by researching all the different kinds that there are, but I plan also mention hair dying and tattoos in greater detail than other options because these three are the most common types of body modification. I also plan to



create an anonymous survey online to see the public's opinion on body modifications, how many people have them, and ask about how specific things are gendered (show photos of specific modifications and ask if the participant considers it feminine/masculine). I also plan to survey a piercing/tattoo artist, heavily modified people, random people, managers at various places of work, police officers, and professors what their opinions are regarding modifications in society.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Improved Fired Safety Exit Plan***

Elizabeth Roosa, Sociology

I am completing my internship with The Resource Center to redesign their fire exit plan. I choose this internship because I enjoy enhancing the lives of people with disabilities. I recorded my actions when redesigning the fire plan in a journal. I obtained permission with the house manager. I asked the residents about the fire plans. I will present my exit plan at staff meetings.

Upon completion I hope to include a layout of my plan, pictures, videos of the interior of the home, and I a typed description of the exit plan.

I have had a positive experience. However, I some faced difficulty. The original manager I spoke with was transferred to another home and I had to re-evaluate the internship with my new manager which was difficult. My goal is to design a policy or plan that maximizes safety and preserves the health of both staff and residents.

Poster Presentation 2:30 p.m. - 3:00 p.m.

### ***My Sister is Transgender: My Exploration of Myself, Family, and Gender***

Eleanor Rubio, English

When my older sister first came out as transgender, I was overwhelmed with a complex amount of emotions, mostly negative. I knew very little about trans identities, and I was unable to see how her transition would impact the way I viewed myself, my family, and gender. For my last semester as a Women's and Gender Studies senior, I've been chronicling my journey through these topics by creating an online series of blog posts. I want to share my journey with you, and help other people navigate their loved ones identities as well.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Strides For My Mind 5k Event Planning and Mental Health Awareness***

Timothy Ryan, Public Relations

The internship I choose to work with was the Chautauqua County Mental Hygiene department. Our goal is to find more sponsors and community members to participate in the Strides for My Mind 5k. It helps to bring to light mental illness and raises money for the cause. As a public relations major this was perfect for me to participate in. I used my prior knowledge of how to communicate with businesses across different platforms as a strategy for success. Some of these platforms included email, social media, and face-to-face meetings. This also coincides with my minor in public health mental health is just as important as physical health. Using the wheel of public health essential services. Under the CDC service wheel this would be under policy Development as multiple faucets such as; educating, empowering, and using computer partnerships. The methods I used were social media presence, community meetings, and planning.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Female Sexuality in Pre-Modern and Modern Societies.***

Abigail Schloupt, Kimberly Bright, Psychology

Comparing and contrasting female sexuality, or lack thereof, in pre-modern and modern society. Exploring how sexuality has, over time, impacted women in many different cultures. From maternal figures to sexual objects, female sexuality is a big part of "queer" history.

Poster Presentation 1:30 p.m. - 2:00 p.m.

***The Popes Go to War: How Pope Pius XI and Pope Pius XII Combated Hitler and The Rise of Nazism***

Benjamin Schrantz, History

This presentation will explore the role the papacy played during World War II. It reexamines how Pope Pius XI and Pope Pius XII navigated the rise of fascism in Europe. While historians argue that the papacy did little to nothing to halt the spread of Nazism in Germany, using different primary and secondary sources, I suggest that the papacy waged a quiet war against Hitler. Although a complicated history, the papacy did not sit quietly as the fascist regime in Germany came to power and attempted to dominate Europe. The quiet war, I suggest, greatly aided the Allied forces and helped bring the downfall of Nazi Germany.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Comparing modern and Pre modern masculinity***

Melissa Schroeder, Jeffrey Thompson, History

We will be looking at the similarities and differences of the masculinity of males in modern day Society and also in Ancient Roman times.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Resource Guide for exiting seniors at TEAM program***

Shannon Schwarberg, Social Work

The problem I studied is the issue that we graduate seniors in the winter and spring from the TEAM program (Teenage education and motherhood). My intentions in creating the resource guide is so the students have a booklet they can refer to to find information on counseling services, daycare, social services, hotlines, medical services, educational services, and many others that we found necessary. The methods I used were collecting the data from already existing resource guides, taking an informal survey from the girls on what they feel they would need post graduation, as well as looking online and gathering information from there. My main results were that there are a lot of services that I didn't even know about. There was quite an extensive list that I compiled and I was able to organize and put under categories in the brochure.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***Black Holes***

Andrew Senseney, Physics

Physics capstone project encapsulating black hole's formation, general relativity, warped spacetime, supermassive black holes, time dilation effects, and what it is like for someone to fall into a black hole.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***A Study of College Students' Misconceptions with Radicals and Rational Exponents***

Collene Sikora-Press, Mathematics Education 7-12

This research analyzes college students' Misconceptions with regards to computations involving radicals and rational exponents. Particularly this research focuses on college students in introductory mathematics courses and their ability and methods used when simplifying expressions containing radicals and rational exponents using isomorphic pairs on assessments.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Geospatial Information Technology Opportunities at Fredonia: A Retrospective of GIS Work in Support of an Interdisciplinary Education***

Kendra Silleman, Brittany O'Brien, Emily Wilkinson, Geology

Geospatial information technologies, such as GIS (Geographic Information Systems) and GNSS (Global Navigation Satellite Systems) are increasingly ubiquitous tools that allow users to analyze and interpret georeferenced data to understand spatial relationships, patterns and trends. While students at Fredonia, we have used geospatial technology in many different ways through interdisciplinary course projects and internships. We have collected, processed and analyzed a wide variety of spatial data, including DEMs (Digital Elevation Models), satellite and aerial imagery, LiDAR data and vector data from numerous sources such as the U.S. Census Bureau, USGS, NOAA, NYS GIS Program Office, USFWS, and UNEP, among many others. Our work has afforded us the opportunity to design our own geodatabases, query them, and share them across multiple platforms. This poster illustrates just a few of the examples of the work we have done using geospatial information technology to support our undergraduate studies and the local community.

Poster Presentation 1:00 p.m. - 1:30 p.m.

***Their Eyes Were Watching God: Social Justice and Masculinity***

Adam Silverman, Social Studies Education

I will be examining the way that Zora Neale Hurston used her novel, *Their Eyes Were Watching God*, to comment on the social justice issue of Masculinity. I will then consider how much progress American society has made on that issue since Hurston wrote her novel in 1937."

Poster Presentation 1:30 p.m. - 2:00 p.m.

***Applied Scheduler Simulator***

Samuel Simpson, Nolan Hettenbaugh, Computer Science

Using a schedule simulator we will show how CPU can manage and schedule process of a system.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Gender and Extracurricular Leadership Position on the Perception of Others***

Courtney Smith, Ashley Wise, Jennifer Beaton, Psychology

Leadership participation in extracurricular activities has multiple benefits, including increased likelihood of occupational success. Participants were asked to view one of

fourteen different resumes, varying in the gender of the applicant as well as the type of extracurricular leadership. Participants were then asked to complete a survey about their own involvement and their perceptions of the applicant, including the applicant's leadership effectiveness, competitiveness, and optimism among multiple other factors.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Dollhouse: A Posthuman Musical***

Rachael Smith, Music Composition

Dollhouse is a musical exploring the conceptualized notions of beauty through social satire centered around childhood dolls. To do this I incorporated elements of posthumanism to critique the societal need for women to conform to an, unrealistic, ideal form. Over the past year I've written a one act musical with music, lyrics, and book. The entire work contains seven songs and a twenty-three page book. The songs include: "Welcome/How to Be a Doll," "Shopping," "Products By Design," "Silicone," "You Could Be More," "Vanity," and "Goodbye." The musical follows the story of a doll named Kara who is brought into the "Dollhouse" with a different set of ideas of self than the three dolls who already reside there. While at first she tries to conform to their standards she eventually begins discover the horrors that reside behind the dollhouse doors and has to decide if the Dollhouse is where she belongs.

Oral Presentation 5:30 p.m. - 6:00 p.m.

***Homeless Care Kit***

James Snodgrass, Social Work

While interning at The Presbyterian Network to End Homelessness, under the National Organizer, Daniel DeBrucker, I was given the project of creating a spreadsheet and guide for creating homelessness kits so that other agencies, organizations, and ministries know what to put in them and how much it would cost them while allowing them to customize their kits. This quick guide to creating the kits will be put on The Presbyterian Network to End Homelessness's website for any and all to use. From this experience, I gained insight about the homeless population. This work demonstrates the Public Health Essential Services by informing, educating, and empowering people about health issues.

Poster Presentation 5:30 p.m. - 6:00 p.m.

***Cisco Networking Technologies***

Jeffrey Storey, Computer Science

A comparison of computer network study between a typical undergraduate computer science curriculum and the Cisco certification path.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***The Great Divide: A Study of Middle School Students, College Students, and Adults Ability to Complete Long Division***

Steve Sturm, Mathematics 7-12

This research will explore the understanding of the long division algorithm of multiple generations. Specifically, it will examine the relationships between the misconceptions of, teaching styles, and the use of the long division algorithm to the performance of middle school students, college students and adults on such problems.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Crafting an Art Song from Scratch***

Emily Joy Sullivan, Graduate Student in Music Composition

This presentation conveys the process of my collaboration with a poet to craft an art song from scratch as part of Art Song Lab 2016, a selective workshop taking place in Vancouver in June. At this point in the process, most of the collaboration with the poet is complete, and I can share that process as well as my own process of composition, through written materials and a recording and score of the piece as it stands now. The performance collaboration process is yet to come!

Poster Presentation with recording of composition and scrolling visual of the score 1:30 p.m. - 2:00 p.m.

***Lower Limb Electromyographic Evaluation and Oxygen Consumption of Motorized and Non-Motorized Treadmill Running***

Charlene Takacs, Exercise Science

The purpose of this project is to measure electrical activity of lower limb muscles and oxygen consumption in both motorized and non-motorized treadmill running. Recently non-motorized treadmills have provided an alternative to traditional motorized treadmills. Non-motorized treadmill running is advertised as superior to motorized treadmill running because of more realistic pacing capabilities, increased muscle activity, and increased oxygen consumption. The benefit of non-motorized treadmill running therefore would be increased calories burned for an identical bout of exercise completed on a motorized treadmill. Subjects will run for 3km on the Woodway CurveTm non-motorized treadmill at a self-selected pace and a CosMed Trackmaster Tx428 motorized treadmill. Oxygen consumption data will be collected via breath by breath analysis with the CosMed CPET metabolic cart. Electromyographic (EMG) data will be collected with Noraxon Myomuscle wireless EMG telemetry system with 5cm x 10cm electrodes placed on muscle activation points of 7 dominant side muscles. EMG

data will be collected from the following muscles: tibialis anterior, biceps femoris, medial gastrocnemius, vastus lateralis, vastus medialis, rectus femoris, and erector spinae. We predict the non-motorized treadmill EMG data to exhibit spatial muscle activation patterns similar to motorized treadmill running patterns. Additionally, we predict increased temporal patterns in the stance and propulsion phase in the non-motorized treadmill running condition. The increased muscle activation in these phases will correspond to an increase in oxygen consumption in the non-motorized condition compared to the motorized condition.

Poster Presentation 3:30 p.m. – 4:00 p.m.

### ***Roman Masculinity Compared to Modern Misogyny***

Jeffrey Thompson, Melissa Schroder, Women's and Gender Studies

We will give a presentation on how Roman and Modern versions of masculinity compare to one another. We hope to dive into hyper masculine spaces and male culture through this project.

Poster Presentation 2:00 p.m. - 2:30 p.m.

### ***Suggestions for Clinic Practices for Transgender Students***

Amanda Thornton, Women and Gender Studies

A summary of research done on sexual health clinics on college campuses, focusing on care of Transgender students. My poster will have suggestions of what colleges can do to make their clinic more accessible, inclusive and comfortable for transgender students. The research will also cover topics like caring for non-binary trans students, how to create a welcoming atmosphere and what to teach the providers.

Poster Presentation 3:30 p.m. - 4:00 p.m.

### ***Using R for Statistical Analysis***

Steven Treacy, Computer Science

The purpose of language R is to perform statistical analysis and visualize data. It is free, open-source software, which means that there are many libraries and methods that can be used with it. Its interface is user-friendly, allowing people with no special experience in coding to be able to use it and get professional results in data visualization.

We will briefly present the capabilities of R and explore a case-study in basketball games. For example, if we take the win- loss ratio of all the basketball teams, we could gather all that data, from every game, compile it, and decide which team is the best, with the most wins, which team has performed consistently over the years, and how

many consecutive years they placed well. Using R allows us to visualize the data and make conclusion about team performance.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***A College Students Exploration of Isomorphic Numeric and Word Percent Problems***

Emily Tronolone, Mathematics 7-12

This study explores how errors will still occur within percent problems even if the student has an understanding of percents. It was hypothesized that college students will perform better on percent problems when given in numeric form versus isomorphic word form when specifically working with discount, tax and tip problems. Furthermore that words hinder the students ability to accurately solve percent problems.

Poster Presentation 5:00 p.m. - 5:30 p.m.

***Engaging in our Community: Students in Service, Delta Chi***

David Turner, Social Work

For over 20 years, The Delta Chi Fraternity has worked with the Volunteer and Community Service office to make our community a better place to live. Logging over 600+ hours annually over the past 2 years, we have increased our efforts and would like to share our experiences and passion with the campus. We've created a poster highlighting some of our major events including: Operation Breakfast Rescue, Day for Kids (Boys and Girls Club), Miracle on Main St., The Delta Chi Egg Hunt, The Salvation Army, and Slush Rush.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***Premodern Lesbianism As Compared To Modern Lesbian Feminism***

Genevieve VanZile, Anneliese Bienko, Psychology

This analysis will begin with the initial mentions of eroticism between women in ancient times and the near erasure of its existence. A focus will then be made on case studies describing what would come to be known as lesbianism and certain models used for its identification. This information will then be paired against modern lesbian feminism to depict its growth and adaptation over the years.

Poster Presentation 3:30 p.m. - 4:00 p.m.



### ***Women and the Church***

Vico Vecchiotti, Kim Kachelmeyer, Women's and Gender Studies

An examination of women's involvement in and relationship with the Catholic Church in pre-modern and modern times.

Poster Presentation 2:00 p.m. - 2:30 p.m.

### ***The Beowulf Cluster***

Peter Vincent, Adam Moncure, Mike Lewis, Computer Science

This project consist of a group of similar computers, referred to as nodes, that are connected together to share resources and processing power. This will then be tested against a single processor system to show performance enhancement when using parallel processes.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***A contextual taxonomy of decision biases and reasoning errors***

Bradley Volz, Psychology/Criminal Justice

Decision biases and reasoning errors are informative of the decision-making process because they show that the typical decision-making process can go awry given particular inputs, just as traumatic brain injuries and their corresponding behavioral abnormalities have historically been the primary source of linkages between brain loci and normative neurological functions. Our analysis of existing literature reveals that there are similar processes impacting decision making across contexts, but hundreds of names of decision biases and reasoning errors. We believe that this due to neglect of the "decision space"—the situations and social contexts in which decisions are made—and excessive scientific nomenclature arising from publication bias surrounding generating new ideas vs. integrating and refining ideas. Therefore, we attempted to develop a comprehensive framework for organizing biases and errors according to common factors of the various contexts.

Poster Presentation 2:30 p.m. - 3:00 p.m.

### ***Early Intervention by Structure Collapse***

Mert Vurgun, Computer and Information Sciences

- ❖ The issue of starting rescue people is to detect of number of people who stack in collapse. Besides, the area where rescue teams focus firstly is hard to determine.
- ❖ The purpose of this project to catalyze of finding solutions and save as much as people rapidly. The project splits in 2 phases.

- ❖ The first one is to place a device in a building that can detect any destruction and also keeps the optimized data of number of people. This device should work 7/24 and update the server. Thus, any interruption between device and server can be define as a problem.

The second part if run a software for rescue teams. The software that lists buildings that have problem and shows popularity of that building in descending order when any problem occur. This software also marks those building in the map. Therefore, It ease to focus which part of area the teams should go first.

Poster presentation 3:00 pm. to 3:30 p.m.

### ***The Relationship Between Locus of Control, Self-Esteem, And Exercise Behaviors***

Patricia Whetstone, Mary Plum, Matt Linderman, Psychology

A between-subjects quasi-experimental study investigated the effect of locus of control and self-esteem on exercise behaviors in undergraduate students at the Fredonia State University of New York. Sixty psychology undergraduates completed surveys online answering questions that determined their locus of control, self-esteem levels, and personal exercise habits. It was hypothesized that a person with an internal locus of control and low self-esteem will exhibit higher levels of exercise behaviors. Results are yet to be analyzed.

Poster Presentation 3:00 p.m. - 3:30 p.m.

### ***Engaging in Our Community: Students in Service, Fredonia's Relay for Life by Colleges Against Cancer***

Stephanie Willis, Public Relations

We are representing the club Colleges Against Cancer to display and present the community service work we have done, which includes organizing and putting on the event "Relay for Life". In the spring of 2015, student volunteers raised over \$ 30,000 dollars and had over 400 participants come to this event. Our club works directly with the American Cancer Society to raise awareness about cancer on our campus, and we provide many opportunities for Fredonia State students to engage in volunteer and community service activities.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Workforce Development Research***

Courtney Winter, Emily Corson, Business Administration: Marketing

Fredonia Enactus has been working on a Workforce Development project, where our mission is to help at-risk youth between the ages of 18-24 find and keep jobs in the Fredonia/Dunkirk area. We are partnering with Chautauqua Works, an employment agency in Dunkirk. We will be working with older youth who have barriers which jeopardizes their chances of finding jobs. Examples of these barriers include previous incarceration and having little to no high school education. We have been interviewing several local businesses in the travel and tourism industry to examine what skills or requirements employers are looking for to help at-risk youth succeed. We also have been researching literature that highlights necessary skills. We plan to work with one business in the travel and tourism industry and develop a youth training program. Here, disadvantaged youth will have the opportunity to gain fundamental skills that are necessary to help guide them towards finding an internship or full-time job.

Poster Presentation 3:30 p.m. - 4:00 p.m.

### ***The Tale of Two Internships***

Ashley Wise, Psychology

I have had the pleasure of having two internships throughout the spring semester. My first internship is with the Public Relations Coordinator, Annie Rosenthal, at Chautauqua Tapestry located in Mayville, NY. My second internship is with the Clinical Research Coordinator, Maria Resnick, at Great Lakes Medical Research in Westfield, NY. Although in different respects, both of my internships place focus on educating the public while also linking individuals with beneficial services. My experience at Tapestry and Great Lakes Medical Research has further prepared me for my career in Public health by providing valuable insight into community outreach practices. The internships also taught me the importance of professionalism and balancing responsibilities.

Poster Presentation 1:00 p.m. - 1:30 p.m.

### ***Experiencing a Writing Conference: Massachusetts Poetry Festival***

Emily Wynne, Rianna Seelig, English

Two English majors will give an oral presentation describing the benefits attending national writing conferences. They will recount their experience at the 2016 Massachusetts Poetry Festival and incorporate information about the 2015 AWP Annual Conference, which they also attended. Main points will involve what the students learned at each event, what they can apply to their classes at Fredonia, and how the impact of these conferences will advance their careers as writers. This presentation will include time for questions regarding similar opportunities, the planning process, and advice.

Oral Presentation 2:00 p.m. - 2:30 p.m.

***Public Health Internship: Fred ASSIST "Protected Pleasure"***

Jamie Young, Psychology

For the past couple months, I've been working with Jane Fischer at Fred ASSIST (Fredonia Association of Students for Safer Intimacy and STI testing). The past 3 years I've been involved in STEPS (Students teaching Equals Positive Sexuality). I wanted my knowledge and skills around sex education to grow. I've informed, educated and empowered students about fun/safe sex and other Fred ASSIST services by reaching out through interactive social media, tabling, creating workshops etc. As well as working behind the scenes to assist in Clinic and Office Hours. My goal was to improve knowledge and confidence within students about sex/related topics. The main workshop I created was based on the fact that sex -ed is almost always just about biology, and rarely ever includes pleasure, consent, or how to safely use toys/lubricants in sex. This internship helped expand my view/interpretation of sex education, beyond that of STEPS.

Poster Presentation 2:00 p.m. - 2:30 p.m.

***The NMR-Derived Structure of an RNA-Ligand Complex Allows for Rational Drug Design of Tau Exon 10 Targets***

Tim Zembryski, Biochemistry

The tau protein forms filamentous legions in neurodegenerative diseases such as Alzheimer's, Parkinson's, and frontotemporal dementia. The ratio of tau protein isoforms is governed by the stability of the tau exon 10 and an increased the four to three repeat isoforms causes the protein to form the toxic filaments. Tau exon 10 is an alternative splicing site that forms a hairpin. Mutations observed in patients with the neurological disorders destabilize the hairpin, which decreases its stability, which increases splicing, which increases the four to three repeat isoform ratio and causes tau filaments to form. Stabilization of the tau exon 10 RNA with a ligand counters the destabilizing effect of mutations to restore the isoform ratio to normal levels. In this study, the three dimensional structure of the tau exon 10 RNA was determined in its apo state and when complexed with a ligand using 2D NMR experiments combined with molecular dynamics simulations. The structure showed that the bulged adenine in the unbound RNA was intercalated within the hairpin. When the ligand was added, it displaced the adenine and intercalated within the RNA. The ligand potentially forms many stabilizing interactions with the RNA that can be enhanced with rational drug design based on the three dimensional structures.

Poster Presentation 2:30 p.m. - 3:00 p.m.

***Dance Performance Abstract***

Title of presentation/choreography: Orion I

Choreographer: Sam Kenney, Associate Professor, Department of Theatre & Dance

Presenters: Molly Carriero, Rachel Clayback, Lauren Dewey-Wright, Jasmine Joyner, Michelle Kirisits, Ilana Lieberman, Jasmine Mattar, Nicole Miller, Rachel Prikazsky, Amanda Sanbelmo, Mercedes Smith

Understudies: Jaqlyn Colangelo, Teresa Grosvenor, Vanessa Raffaele

“Orion I” was recently selected for presentation in the Gala Concert of the 2016 East Central Regional American College Dance Association Conference. The 2016 conference, held at Western Michigan University in Kalamazoo from March 5 to 8, was a whirlwind of classes, workshops, panels and performances attended by over 500 students, faculty, choreographers, and musicians from more than 20 colleges and universities from Michigan, New York State, Ohio, Pennsylvania and Taiwan.

The event culminated in the Gala Concert, which featured the 12 strongest works selected from an initial pool of 48 dances submitted to the conference adjudicators, nationally recognized dance artists Elizabeth Gillaspy, Millicent Johnnie and Christopher K. Morgan.

Originally created for the Fredonia Dance Ensemble in 2013, and revised for the 2015 Fredonia Dance Ensemble Concert, “Orion I” was hailed by the adjudicators as an “intense, ambitious, and sophisticated” piece that “gave the dancers a work in which they could both shine and be challenged,” and conjured images of “time-lapse photography of space.” The adjudicators also praised the Fredonia dancers’ “fierce” dancing, their impressive spatial awareness, and their ability to work as a true ensemble. As one adjudicator stated: “I felt like I was on the tail of a comet, holding on for dear life!”