

Research Days

A series of events celebrating research,
scholarship and creative activity



Poster sessions abstracts and
recognition of student researchers

April 21, 2017

BINGHAMTON
UNIVERSITY
STATE UNIVERSITY OF NEW YORK

WELCOME TO RESEARCH DAYS



Dear students, faculty, staff and friends:

Thank you for joining Binghamton University in celebrating the exciting research, scholarship and creative work being conducted on our campus.

These vital activities connect our students with our world-class faculty and have long been a part of the fabric of academic excellence at Binghamton. As we continually look to expand opportunities for students, our groundbreaking Freshman Research Immersion (FRI) program has grown, now providing exceptional opportunities for students to combine their academic studies with the experience of conducting authentic research in one of nine research streams.

Our new Summer Research Immersion (SRI) program provides the same exceptional experience of conducting real research, coupled with the development of workplace skills that employers, graduate schools and professional schools expect: communication, collaboration, project management and leadership skills.

Our Summer Artists and Scholars Program, and the Center for Israel Studies Summer Scholars and Artists Program, provide funding to undergraduate students for eight weeks of full-time scholarly activity. This summer, more than two dozen students will benefit from these programs, working on projects ranging from the art and science of glass to Ronald Reagan's Cold War policies, and from writing a novel to engineering metal oxides.

And, of course, hundreds of our faculty offer undergraduate and graduate students rich opportunities to conduct research and discover new knowledge through independent research projects, work in their labs and studios, capstone projects and community-based research.

We have also forged strong collaborations across campus through our five Transdisciplinary Areas of Excellence (TAEs). The TAEs involve over 200 faculty in the areas of citizenship, rights and cultural belonging; health sciences; material and visual worlds; smart energy; and sustainable communities. Each TAE has developed initiatives that have created a sense of identity, inspired collaboration and continue to generate excitement about the possibilities they hold.

We thank you for being part of our research celebration!

Sincerely,

Donald G. Nieman
Executive Vice President and Provost

STUDENT PRESENTATIONS AND POSTERS

11 a.m. Friday, April 21

Ashley D. Baker, graduate student, biomedical anthropology; and Margaret L. Duris, graduate student, biomedical anthropology

Advisor: Ralph M. Garruto, professor/director, Binghamton Biospecimen Archive Facility

Ecological Impacts on the Spread of Lyme Disease in Built Versus Non-built Environments

Gabriella Bayshtok and Sabina Bayshtok, both juniors in biological sciences

Advisor: Kirsten Prior, assistant professor, biological sciences

Restoring Invaded Ecosystems: Does Invasive Species Management Increase Native Diversity?

Sabina Bayshtok and Gabriella Bayshtok, both juniors in biological sciences; and Nikolas Kritis, freshman, engineering design

Advisor: Kim Jaussi, associate and collegiate professor, School of Management

The Effects of Creative Self-Efficacy and Cross-Application of Experiences on Risk-Taking at Work

Andreea Birtan and Cynthia Vlad, both seniors in biological sciences

Advisor: Lina Begdache, assistant professor, health and wellness studies

A Study of Comorbidities and Nutritional Supplements Strongly Associated with Inflammatory Bowel Disease

Brandon Bocanumenth, junior, psychology; and Mikaela Itkin-Weinstein, sophomore, undeclared

Advisors: Ann Merriwether, associate professor, psychology and human development; and Sean G. Massey, associate professor, women, gender and sexuality studies

Queering Social Dating Apps: Do You Swipe Both Ways?

Adam Cooke, graduate student, biological sciences

Advisor: Jeffrey Schertzer, assistant professor, biological sciences

Biofilm Outer Membrane Vesicles are Similar to Planktonic Outer Membrane Vesicles in terms of Size Distribution, Predatory Activity, and Biogenesis

Phillip Cornelius, senior, English

Advisor: Joseph Keith, associate professor, English

Religion as an Ideology for Change in Science Fiction

Maria Santa Cruz, junior, integrative neuroscience

Advisor: Thomas Powell, assistant professor, biological sciences

Effects of Temperature on Body Size of Rhagoletis Flies in Complex Ecological Covariates

Aira Domingo, senior, integrative neuroscience

Advisors: Sarah Laszlo, associate professor, psychology; and Nicole Cameron, assistant professor, psychology and biological sciences

Cyclic Effects of Progesterone on Brain Activity Related to Alcohol in Adolescent Human Females

**Tyler Eustance, graduate student,
physics**

Advisor: Wei-Cheng Lee, professor, physics

Strain-induced Mott Transition in Vanadium Dioxide

**Austin Ferrier, senior, biochemistry; and
Bryan Levine, sophomore, integrative
neuroscience**

Advisor: Ralph Garruto, professor/director,
Binghamton Biospecimen Archive Facility

*Human Risk for Lyme Disease in Built Versus
Non-built Environments*

**Lily Garnaat, freshman, undeclared;
and Benjamin McLaughlin, junior,
environmental studies and graphic
design**

Advisor: Jessica Hua, assistant professor,
biological sciences

Where the Wetlands End: An Art Exhibition

**Alec Michael Gaspar, sophomore,
biological sciences**

Advisor: Heather Fiumera, associate professor,
biological sciences

*Mitochondrial Epistasis in *Saccharomyces
cerevisiae**

**Carmina Georgescu, senior; Shai Lev,
senior; Vivian Lee, junior; Ciara McNeill,
sophomore; and Anna Sirota, freshman,
all in nursing**

Advisors: Lori Sprague, clinical assistant professor;
Joyce M. Rhodes-Keefe, clinical assistant
professor; Rosemary Collier, clinical assistant
professor; Geraldine Britton, assistant professor, all
in the Decker School of Nursing

*Application of the Pender's "Health Promotion
Model" to a Perinatal Smoking Intervention: A
Review of the Literature*

**Lillian Harrington, sophomore,
integrative neuroscience; Taylor
Goodman, sophomore, integrative
neuroscience; Allison Butler, junior,
nursing; Morgan Cinnamo, junior,
integrative neuroscience; Mariel Boyle,
sophomore, psychology; and Shai Katz,
junior, psychology, history and Judaic
studies**

Advisors: Sean G. Massey, associate professor,
women, gender and sexuality studies; and Ann
Merriwether, assistant professor, psychology and
human development

*The Friendzone: An Infinite Place Where
Nothing Good Happens; A Comprehensive
Study of Friendzoning Across Varying Genders
and Sexual Orientations*

**Cassandra Heaney, senior, integrative
neuroscience**

Advisor: Lina Begdache, assistant professor, health
and wellness studies

*Dietary Supplement Knowledge and Usage
Among College Students*

Stephanie Herlihy, senior, psychology

Advisor: Anne Brady, professor, theatre

Child Development Through Theater

Jared Jaeger, junior, biological sciences

Advisor: Jessica Hua, assistant professor,
biological sciences

*Inducible Pesticide Tolerance in *Daphnia Pulex*
Influenced by Resource Availability*

Christine Kearns, senior, psychology

Advisor: William Pavlovich, Global Studies Program
coordinator

*The Union of Public Art and Nationalism in
Madrid and Barcelona*

Mary-Kate Kelly, senior, biological sciences and English; Imina Emokpae, freshman, integrative neuroscience; Maytar Nebel, sophomore, business administration; and Ariana Loncar, sophomore, marketing

Advisor: Kimberly Jaussi, associate and collegiate professor, School of Management

Diversity Exemplars and Race: Their influence on Perceptions of Career Preparedness

Minyoung Kim, graduate student, biological sciences

Advisors: Claudia NH Marques, assistant professor, biological sciences; and Guy K. German, assistant professor, biomedical engineering

The Role of Staphylococcus Aureus in Onset of Atopic Dermatitis

Shai Lev, senior; Valois Feneziani, senior; Erika Flemmig, sophomore; Jessica Alzona, sophomore; Sarah Ryszka, junior; Jennifer Swaine, junior; Lucas Sparovich, junior; Letitia Chang, junior; Kaitiin Trick, sophomore, all in nursing; and Vivien Pan, sophomore, integrative neuroscience

Advisors: Judith Quaranta, assistant professor; Fran Srnka-Debnar, clinical associate professor; Rosa Darling, assistant professor, all in the Decker School of Nursing

Impact of a Community-Engaged Research Course on Intention to Enroll in Graduate School and Participate in Research

Jarita Liang, sophomore, biological sciences; and Elizabeth Vaynblat, senior, human development

Advisor: Lina Begdache, assistant professor, health and wellness studies

Low Glycemic Index Diet May Reduce Stress Levels in Gastroesophageal Reflux Disease Patients

Weiwei Liu, graduate student, biological sciences

Advisor: Heather Fiumera, associate professor, biological sciences

Performing Genome-Wide Association on a Novel Recombinant Saccharomyces Cerevisiae Population

Sophomores Daniella Lore, integrative neuroscience; Courtney Jackson, chemistry; Rachel Knaust, integrative neuroscience; Jessica Pinsker, integrative neuroscience; Sarah DeVries, integrative neuroscience; and Julia Sternberg, psychology and business administration

Advisor: Corinne Kiessling, clinical assistant professor, psychology, and Freshman Research Immersion program

Dopamine and Acetylcholine Lesion Model Reflects Parkinson's Disease Symptoms and L-DOPA-Induced Dyskinesia

Pamela Lovejoy, graduate student, biological sciences

Advisor: Anthony Fiumera, associate professor, biological sciences

Genes Affecting Susceptibility to Paraquat in D. Melanogaster

Rachel Lubinga, senior, integrative neuroscience; Mmekom Udosen, junior, integrative neuroscience; and Christiana Oyewande, sophomore, Africana studies

Advisor: Titilayo Okoror, associate professor, Africana studies

Knowledge Level on Menstrual Hygiene Among Adolescents Girls in Rakai District, Uganda

Mridu Malik, graduate student, biomedical engineering

Advisors: Gretchen Mahler, assistant professor, biomedical engineering; and Laura Musselman, assistant professor, biological sciences

Assessing the Role of Dietary Factors and Intestinal Inflammation on Gut Permeability

**Sarah Marcus, graduate student,
biological sciences**

Advisor: Anthony Fiumera, associate professor,
biological sciences

*Differences in Gene Expression Between Fly
Lines Exposed to Atrazine*

**Anna Marszalek, junior, biological
sciences**

Advisor: Lina Begdache, assistant professor, health
and wellness studies

*Sleep Patterns, Mood, and Academic
Performance in Relation to Stimulant Use*

**Amelia Martin, junior, biological
sciences**

Advisor: Pavel Masek, assistant professor,
biological sciences

Flavor in Fruit Flies

**Stefan McCarty, graduate student,
physics**

Advisor: Stephen Levy, associate professor, physics

Flowing DNA Through Carbon Nanotubes

**Benjamin McLauchlin, junior,
environmental studies and graphic
design**

Advisor: Jessica Hua, professor, biological sciences

*Impact of the Arts on Public Perception,
Comprehension, and Retention of Scientific
Research*

**Emily Mendelson, freshman, political
science and business administration;
Dakota Desantis, junior, psychology and
economics; and Brandon Bocanumenth,
junior, psychology**

Advisors: Sean G. Massey, assistant professor,
women, gender and sexuality studies; and Ann
Merriwether, assistant professor, psychology and
human development

*Finding Tinderella: How Digital Communication
Impacts Sexual Satisfaction*

Kelly Miller, graduate student, nursing

Advisor: Yvonne Johnston, research associate
professor, Decker School of Nursing

*Improving the Diagnosis of Gout in the Primary
Care Setting*

**Ryan Mirchin, senior, integrative
neuroscience**

Advisor: Sarah Laszlo, associate professor,
psychology

*A Study of Inter-Letter Spacing During Visual
Word Recognition*

**Timothy Morris, junior, geological
sciences and environmental studies;
and Megan Blance, senior, biological
sciences**

Advisor: Kirsten Prior, assistant professor,
biological sciences

*Thinking About Conservation Targets: Recovery
of Complex Versus Simple Ecological Systems
From Invasive Species Management*

**Maytar Nebel, junior, business
administration**

Advisor: Kim Jaussi, associate and collegiate
professor, School of Management

*Diversity Training in Academia: The Influences
of Subgroups' Perceptions and Their Role in
Diversity Appreciation*

**Adam Neu, senior, mechanical
engineering**

Advisor: Congrui Jin, assistant professor,
mechanical engineering

*Eigenvalue Problems of PDEs Using Numerical
Methods*

**Thomas Nguyen, senior, integrative
neuroscience**

Advisor: Vladimir Miskovic, assistant professor,
psychology

*The Modulation of Steady State Visually
Evoked Potentials by the Spatial Structure of
Input Stimuli*

**Tuc Nguyen, graduate student,
biological sciences**

Advisor: Heather Fiumera, associate professor,
biological sciences

*The Tug-of-War Between Fast Growth and
Mitochondrial Genome Integrity in Baker's
Yeast*

Eileen O'Hara, senior, biochemistry

Advisor: Laura Musselman, assistant professor,
biological sciences

*Biochemical and Physiological Analyses of
Drosophila Fat Body and Heart During Caloric
Overload*

**Ashley Oddo, junior; Kyle Fisk, senior;
Strianie S. Louis, senior; Olivia Choi,
sophomore; Jm Bryan Claveria, junior;
Joshua Segovia, junior; Timothy Li,
junior, all in nursing; Danielle Gerome,
senior, integrative neuroscience;
Danielle Kiczales, senior, nursing; and
Rachel Yull, graduate student, public
health**

Advisors: Judith Quaranta, assistant professor;
Fran Srnka-Debnar, clinical associate professor;
Rosa Darling, assistant professor, all in the Decker
School of Nursing

*The Relationship of Adverse Childhood Events
and Asthma and Asthma Severity in the
College Population*

**Sophia Osorio, junior, environmental
studies; and Matthew Lundquist,
graduate student, biological sciences**

Advisor: Weixing Zhu, professor, biological
sciences

*The Effect of Urbanization on Litter
Decomposition and Colonization by Aquatic
Insects in Submerged Litter Bags in Greater
Binghamton Streams*

**Mark Pallay, graduate student,
mechanical engineering**

Advisor: Shahrzad (Sherry) Towfighian, assistant
professor, mechanical engineering

*Parametric Resonance in a Repulsive-Force
MEMS Actuator*

**Mauricio Paramo, senior, biological
sciences**

Advisor: Andrew Grimson, assistant professor,
molecular biological sciences and genetics, Cornell
University

*Investigating the function of cis-regulatory
elements in mammalian 3'UTRs*

**Tori Pena, junior, psychology and
anthropology; Melanie Sharif, senior,
psychology; Therese Boyle, junior,
psychology; Candice O'Connor,
freshman, psychology; and Sophie
Portnoy, senior, psychology**

Advisors: Sean G. Massey, assistant professor,
women, gender and sexuality studies; and Ann
Merriwether, assistant professor, psychology and
human development

*Oops, I Did It Again: Gender Differences Among
Sexual Regret in College Students*

**Bradley Phelps, sophomore, physics;
and Logan Alvarez, sophomore,
chemistry**

Advisor: Marissa Civic, clinical assistant professor,
Freshman Research Immersion program

*Fabrication Methods and Variations on Copper
(I) Iodide*

**Brian Philip, graduate student,
biomedical engineering**

Advisor: Gretchen Mahler, assistant professor,
biomedical engineering

Recapitulate Renal Physiology

Reid Portnoy, senior, integrative neuroscience; and Tori Pena, junior, psychology and anthropology

Advisor: Ralph Miller, distinguished professor, psychology

Two-Phase Outcome Interference by Neutral and Affective Outcomes

Cristina Quinn, senior, sociology and human development

Advisor: Kelvin Santiago-Valles, associate professor, sociology

On the Privatization of a Nation: The Case for Binghamton University

Zara Shah, senior, anthropology; Fatima Livan, junior, Africana studies; David Owusu, senior, psychology; Ayesha Khakkar, junior, biological sciences; Tatiana Requiño, senior, biological sciences; Tara Worrell, senior, geography; Eleni Florakis, senior, integrative neuroscience; and Kaitlyn Schott, junior, integrative neuroscience

Advisor: Titilayo Okoror, associate professor, Africana studies

"I don't really fit the norm" – Health and Perceived Racism/Discrimination Among Black Students on Binghamton University Campus

Elisabeth Stein, freshman, undeclared

Advisor: Kim Jaussi, associate and collegiate professor, School of Management

The Effect of Diverse Role Models on Students' Feelings of Inclusivity

Jessica Szymeczek, sophomore, English

Advisor: Kimberly Jaussi, associate and collegiate professor, School of Management

The Correlation Between Race and Feeling Respected

Natasha Talukdar, senior, music and English

Advisor: Joel Harder, assistant professor, music

Apprenticeship in Collaborative Piano with Joel Harder

Mollie Teitelbaum, senior, philosophy and comparative literature; Daniel Arey, sophomore, human development; and Sarah Wood, sophomore, human development

Advisors: Sean G. Massey, assistant professor, women, gender and sexuality studies; and Ann Merriwether, assistant professor, psychology and human development

Unscripted Sexuality: Are Straight Women Missing the Boat?

Alexandria Tricoche, senior, biological sciences; Julia Townsend, junior, biochemistry; Abu Rahat, junior, integrative neuroscience; and Rachael Behler, sophomore, chemistry

Advisor: Ralph Garruto, professor/director, Binghamton Biospecimen Archive Facility

Sequestration of the Lyme Disease Pathogen in Reservoir Hosts: Implications for Human Symptoms

Jennifer Troiano, senior, chemistry

Advisor: Wayne Jones, professor, chemistry

Nanofibrous Polymer and Metal Organic Framework Composites for the Degradation of Simulated Chemical Warfare Agents

Mmekom Udosen, junior, Africana studies and integrative neuroscience; Elizabeth Alexis, junior, integrative neuroscience; Stefanie Joseph, junior, biological anthropology; Samantha Smith, sophomore, integrative neuroscience; Helen Frazer, junior, biological anthropology; and Matthew Young, sophomore, biomedical engineering

Advisor: Titilayo Okoror, associate professor, Africana studies

Knowledge and Awareness Level about Hepatitis-B Virus in the Central Region of Ghana, West Africa

Yonaida Valentine, senior, integrative neuroscience

Advisor: Marvin Diaz, assistant professor, psychology

Effects of Stress on Social Interaction of Adolescents and Adults

Elizabeth Vaynblat, senior, human development; and Joel Singh, graduate student, Jade Marhaba, senior, and Richard Webster, senior, all in integrative neuroscience

Advisor: Lina Begdache, assistant professor, health and wellness studies

Increased Ratio of Dietary Carbohydrate to Protein is Associated with Stress Scores Reduction

Jessie Wang, junior, anthropology; and Alysa Pomer, graduate student, biomedical anthropology

Advisors: Ralph Garruto, professor/director, Binghamton Biospecimen Archive Facility; and Koji Lum, professor, anthropology and biological sciences

Dietary Diversity Across a Modernization Gradient in the South Pacific Island Nation of Vanuatu

Jennifer Wapinski-Mooradian, graduate student, social work

Advisors: Lisa Blitz, associate professor, social work; Denise Yull, assistant professor, human development; and Youjung Lee, assistant professor, social work

Learning Your ABCDs: Asset-Based Community Development, International Service Learning, and Community Engaged Research in Rural Malawi

Jessica S. Wasserman, senior, integrative neuroscience; Benjamin M. Seitz, senior, individualized major program and psychology; Jessica Pino, junior, psychology; Crystal V. Casado, junior, integrative neuroscience; and Anna Tsvetkov, junior, psychology and philosophy

Advisor: Ralph Miller, distinguished professor, psychology

Adaptive Memory: Is There a Reproduction Processing Effect?

Kyle Welch, senior, Arabic studies and French

Advisor: Omid Ghaemmaghami, assistant professor, classical and Near Eastern studies

Love in the Qur'an

Abigail Wiss, sophomore, biochemistry and Alfred Malomo Jr., sophomore, biological sciences

Advisor: Susan Flynn, research assistant professor, Freshman Research Immersion and chemistry

Effects of Zn²⁺ and Ni²⁺ on Glutamate Transport

John Wolters, graduate student, biological sciences

Advisor: Heather Fiumera, professor, biological sciences

Mitochondrial DNA Recombination Produces Novel Phenotypes

Matthew Young, sophomore, biomedical engineering; Stefanie Joseph, junior, anthropology and Africana studies; Mario Amaya, junior, undeclared; Sarah Saad, senior, human development; Samantha Petrucci, sophomore, integrative neuroscience and psychology; and Tara Hanau, senior, human development

Advisor: Titilayo Okoror, associate professor, Africana Studies

Identity, Cultural Beliefs about Education and Health Among Asians Students on Binghamton University Campus

Nicole Zhang, graduate student, nursing

Advisor: Ann Myers, clinical professor, nursing

Concept Analysis of Urinary Incontinence

Andrew Ziesel, senior, biochemistry; and Sargunvir Sondhi, junior, biological sciences

Advisor: Heather Fiumera, associate professor, Biological sciences

*Investigating Fitness of Nuclear-Mitochondrial Genome Combinations in *Saccharomyces cerevisiae* on Natural Substrates*

STUDENT PRESENTATIONS AND POSTERS

2 p.m. Friday, April 21

Elizabeth Alexis, junior, integrative neuroscience; Melissa Chacko, senior, anthropology; and Gary Gravesandy, senior, integrative neuroscience

Advisor: Titilayo Okoror, associate professor, Africana studies

Socio-cultural Context and Sexual Identity Among LGBTQIAP on Binghamton University Campus

Jennifer Augustin, junior, biological sciences and Spanish; and Meghana Parik, graduate student, biological sciences

Advisor: Pavel Masek, assistant professor, biological sciences

*Long Term Memory in *Drosophila melanogaster**

Mikayla Brown, senior, biological sciences

Advisor: Omowumni Sadik, professor, chemistry

*Electrochemical Analysis of *E.Coli* in Response to External Stressors*

Teaghen Buscemi, senior, integrative neuroscience

Advisor: Brandon Gibb, professor, psychology

Cognitive Reappraisal and Reactivity to Interpersonal Stress

Rachael Cavallaro, senior, psychology

Advisors: Sean Massey, associate professor, women, gender and sexuality studies; and Ann Merriwether, associate professor, psychology and human development

Fat Girls Have Just as Much Fun; Internalization of Social Appearance Standards and Body Appreciation's Effects on the Relationship between Body-Mass-Index and Sexual Satisfaction

Biqi Chen, sophomore, political science and human development

Advisor: Ann Merriwether, assistant professor, psychology and human development

It Doesn't Hurt to Smile: Objectification and Gender Stereotyping of Women in Film from the 1970s and the 2000s

David Chuchuca, graduate student, biological sciences; Antonina Poplawski, junior, integrative neuroscience; Tara Herrera, senior, biological sciences; Shiau-sing Ciecierska, junior, integrative neuroscience; Brandon Lewandowski, junior, biological sciences; Lindsey Florek, junior, biological sciences; and Ravneet Dhillon, graduate student, biological sciences

Advisor: David Davies, associate professor, biological sciences

Biofilm Dispersion Inducer Enhances Antimicrobial Efficacy Across a Range of Applications

Jesse Cole, senior, integrative neuroscience

Advisor: Marvin Diaz, assistant professor, psychology

Moderate Prenatal Alcohol Exposure and its Effect on the Neurokinin-1 Receptor in the Lateral Septum and Bed Nucleus of the Stria Terminalis

Sarah D'souza, junior, integrative neuroscience

Advisor: Lina Begdache, assistant professor, health and wellness studies

Assessing Nutritional Knowledge and Attitude in Binghamton University Health and Wellness Minors Compared to Those Not in the Minor

Sarah D'Souza, junior, integrative neuroscience

Advisor: Lina Begdache, assistant professor, health and wellness studies

Assessing Reasons for Increased Nutritional Knowledge in Female Division I Athletes Versus Male Division I Athletes

Meysam Daeichin, graduate student, mechanical engineering

Advisor: Shahrzad (Sherry) Towfighian, assistant professor, mechanical engineering

Improved Modeling for the Microphone

Dylan Davis, senior, anthropology

Advisor: Carl Lipo, professor, anthropology

Resource Scarcity and Monumental Architecture: Cost Signaling on Rapa Nui (Easter Island), Chile

Jessica De Jesus, junior, integrative neuroscience

Advisor: Heather Fiumera, associate professor, biological sciences

Identification of MtDNA Variants and their Effects on Climatic Adaptation

Alanna Dodrill, freshman, nursing

Advisor: Kim Jaussi, associate and collegiate professor, School of Management

The Varying Perceptions of Diversity Amongst Races Throughout College Years

Kayla Fenty, sophomore, integrative neuroscience; Nicholas Haas, sophomore, integrative neuroscience; Jourdan Pouliot, sophomore, integrative neuroscience and philosophy; Akibo Watson, sophomore, economics and biological sciences; and Austin Goldsamt, sophomore, integrative neuroscience

Advisor: Corinne Kiessling, clinical assistant professor, Freshman Research Immersion program and psychology

Immunohistochemical Analysis of Acetylcholine Neuron Loss in Parkinson's Disease

Jaymes Flournoy, senior, physics

Advisor: Jeffrey Mativetsky, assistant professor, physics

Voltage-Induced Reduction of Graphene Oxide

Abigail Giles, senior, biological sciences

Advisor: Anthony Fiumera, associate professor, biological sciences

Role of Dietary Sugar on Atrazine Responsiveness During Development in Drosophila Melanogaster

Marina Glinias, sophomore, biochemistry; and Cindy Ng, sophomore, biological sciences

Advisor: Susan Flynn, clinical assistant professor, chemistry and Freshman Research Immersion program

Effect of Beta-Lactam Antibiotics on EAAC1 Expression and Glutamate Efflux

Jigar Gosalia, senior, integrative neuroscience

Advisor: Brandon Gibb, professor, psychology

Attentional Biases to Threat-Relevant Stimuli: Angry versus Fearful Faces

Erika Harper, senior, anthropology

Advisor: Sidney Dement, assistant professor, German and Russian studies

Researching and Creating a Kunstmärchen

Ally Hartmayer, sophomore, undeclared

Advisor: Kimberly Jaussi, associate and collegiate professor, School of Management

The Effects of Diversity in a Classroom Setting

Joseph Hashmall, freshman, business administration and biological sciences; and Bradley Matican, sophomore, management and Spanish

Advisor: Kim Jaussi, associate and collegiate professor, School of Management

The Effect of Gender on Changes in Activity Levels During Motivation Educational Speech-Based Events

Shafeen Hemnani, junior, psychology

Advisor: Jennifer Gillis Mattson, associate professor, psychology

Predictors of Sleep Problems in Undergraduate students

Taylor R. Juran, graduate student, physics

Advisor: Manuel Smeu, assistant professor, physics

The Search for Alternative Battery Materials

Aylone Katzin, graduate student, public administration

Advisor: George Homsy, assistant professor, public administration

Assessing the Impact and Importance of Public Satisfaction Surveys of Local Government Services

Benjamin Krauss, sophomore, biochemistry; Ewa Gerlak, sophomore, integrative neuroscience; and Natividad Guillen, sophomore, integrative neuroscience

Advisor: Susan Flynn, clinical assistant professor, chemistry and Freshman Research Immersion program

The Effect of Caffeine and Theophylline on Cellular Oxidative Stress

Michael Lam, junior, biological sciences; and Cruz Torres, sophomore, environmental studies

Advisors: George Meindl, professor, environmental studies; and James Sobel, professor, biological sciences

Mating System Plasticity in Mimulus

William Larsen, graduate student, nursing

Advisor: Yvonne Johnston, research associate professor, nursing

Building Sustainable Chronic Care in a Free Clinic

**Yuanyuan Li, graduate student,
biological sciences**

Advisor: Pavel Masek, assistant professor,
biological sciences

Taste Learning Memory on Fatty Acid

**Daniella Lore, integrative neuroscience;
Courtney Jackson, chemistry; Rachel
Knaust, integrative neuroscience;
Jessica Pinsker, integrative
neuroscience; Sarah DeVries,
integrative neuroscience; and Julia
Sternberg, psychology and business
administration, all sophomores**

Advisor: Corinne Kiessling, clinical assistant
professor, Freshman Research Immersion program
and psychology

*Dopamine and Acetylcholine Lesion Model
Reflects Parkinson's Disease Symptoms and
L-DOPA-Induced Dyskinesia*

**Shania Mahmud, freshman, computer
science and biological sciences;
and Yuanyuan Li, graduate student,
biological sciences**

Advisor: Pavel Masek, assistant professor,
biological sciences

*Development of a Behavioral Assay for Real-
Time Tracking of Multiple Freely Moving
Drosophila Flies*

**Morgan G. Manganello, sophomore,
integrative neuroscience; Amanda E.
Guitar, graduate student, anthropology;
Laura E. Miller, junior, anthropology
and psychology; Alyssa Murray,
sophomore, biochemistry; Renee
Berkowitz, sophomore, psychology and
anthropology; and Lorna E. Erb, junior,
anthropology and political science**

Advisor: Rolf Quam, associate professor,
anthropology

*Immunosuppression in the Luteal Phase of
Naturally-Cycling Women*

**Stephanie Maung, junior, biological
sciences**

Advisor: Thomas Powell, assistant professor,
biological sciences

*Dormancy Survival Skills: The Role of
Metabolic Suppression in Adaptation to
Climate Change*

Jan Mead, graduate student, nursing

Advisor: Gale Spencer, distinguished teaching
professor, nursing

*Quality of Life Measures in Women with Post
Mastectomy Secondary Lymphedema Who
Utilized Online Support Forums*

**Rachel Moshman and Lily Rubin,
seniors in integrative neuroscience**

Advisor: Jennifer Wegmann, lecturer, health and
wellness studies

*Stress Management Course Improves Stress
Mindset*

William Moy, freshman, undecided

Advisor: Kim Jaussi, associate and collegiate
professor, School of Management

*The Effect on Expertise by Presence of a
Superior*

**Emma Northrup, biomedical
engineering; Emily Kuehnle, biological
sciences; and Guadalupe Angel,
integrative neuroscience, all freshmen**

Advisor: Kim Jaussi, associate and collegiate
professor, School of Management

*The Effects of Tier Talks on Negative
Perspectives in Regards to Level of Excitement*

**Maryam Omar, graduate student,
nursing**

Advisors: Geraldine R. Britton, assistant professor,
nursing; and Nicole Rouhana, research associate
professor, nursing

*Dementia and Informal Female Caregivers'
Stress*

Allison Pamper, junior, integrative neuroscience

Advisor: Lina Begdache, assistant professor, health and wellness studies

Weight Loss Supplements on College Campuses: Use and Perception

Aidan Papalia, junior, integrative neuroscience

Advisor: Mathew Vetticatt, assistant professor, chemistry

Hydroamination of Alkenes

Matthew Pedersen, senior, business administration and psychology

Advisor: Tommy lafrate, assistant professor/director of musical theater, theatre

Why Do You Sound so Good? Innate Advantages and Disadvantages of Chinese Singers performing American Musical Theater Repertoire

Aaron Penzel, sophomore, business administration and theatre

Advisor: Tommy lafrate, assistant professor/director of musical theater, theatre

Musical Theatre Trip to China

Hannah Pollick, senior, psychology and sociology

Advisor: Kenneth Kurtz, associate professor, psychology

Formal Training of Relational Encoding for Insight-Driven Problem Solving

Katarina Poynor, integrative neuroscience; Tara Rini, psychology and linguistics; Rebecca Kindler, integrative neuroscience; Stacia Sayyed, integrative neuroscience; Sasha Phillips, integrative neuroscience; and Simone Nasroodin, integrative neuroscience, all sophomores

Advisor: Corinne Kiessling, clinical assistant professor, Freshman Research Immersion program and psychology

Effect of Parkinson's Disease Lesioning on Handedness in Rat Models

Julie Raab, junior, biochemistry

Advisor: Jeffrey Schertzer, assistant professor, biological sciences

OMV Biogenesis in Pseudomonas aeruginosa

Matteo Reiss, sophomore, geography; and Maria Molina Mera, sophomore, environmental studies

Advisor: Louisa Holmes, assistant professor, geography

Distribution of High Lead Paint Index in Greater Binghamton

Sonia Reyes, junior, sociology; Melina Africano, freshman, biomedical engineering; and Bethany Brown, senior, psychology

Advisors: Sean Massey, assistant professor, women, gender and sexuality studies; and Ann Merriwether, assistant professor, psychology and human development

"But is it Facebook Official?" How College Students Define Dating

Adelle Ricci, freshman, chemistry

Advisor: Kim Jaussi, associate and collegiate professor, School of Management

Creative Catalyst Identity, Rewards, and Being a Peer Creative Catalyst

Yelizaveta Rozenfeld, junior, integrative neuroscience; Simona Maksimyan, junior, integrative neuroscience; and Hui Jin Jo, senior, biochemistry

Advisor: Ralph Garruto, professor/director, Binghamton Biospecimen Archive Facility

Blacklegged Tick Density and Infectivity with Borrelia Burgdorferi and Human Risk Behaviors in Broome County Parks

Jonathan Salas, senior, integrative neuroscience

Advisor: Yao-Ying Ma, associate professor, psychology

A Model for Increased Cocaine Taking in Prenatal Alcohol Exposed Adolescent Rats

Zara Shah, senior, biological anthropology; Eric Pecina, sophomore, biological sciences; and Rani Schoenhaus, junior, biological sciences

Advisor: Ralph Garruto, professor/director, Binghamton Biospecimen Archive Facility

Density and Infectivity of Ixodes scapularis with Borrelia burgdorferi and the Human Risk of Lyme Disease in the Upper Susquehanna River Basin

Ryan Sharpelletti, freshman, computer science and political science

Advisor: Kim Jaussi, associate and collegiate professor, School of Management

Marginalized Groups' Perception of Peer Acceptance in Higher Education

Rachael Shaw, senior, psychology

Advisors: Sean Massey, assistant professor, women, gender and sexuality studies; and Ann Merriwether, assistant professor, psychology and human development

Self Perception of Drunkenness, Communication of Consent and Coercion

Molly Sherwood, senior, integrative neuroscience

Advisor: Katherine Wander, associate professor, anthropology

Effects of Dietary Intake on Iron Deficiency in Children in Rural Kilimanjaro, Tanzania

Christopher N. Singh, graduate student, physics

Advisor: Wei-Cheng Lee, assistant professor, physics

Harnessing Quantum Slaves Sheds New Light on Old Mystery Material

Kayden Stockwell, junior, psychology and human development; and Laura McArdell, graduate student, clinical psychology

Advisor: Jennifer Gillis Mattson, associate professor, psychology

The Relation of Sleep Problems and Mood Disorders in Undergraduate Students

Bryon F. Tuthill II, graduate student, biological sciences

Advisor: Laura Musselman, assistant professor, biological sciences

Biochemical and Physiological Analyses of Drosophila Fat Body and Heart During Over-Nutrition

Stephanie Vogel, senior, integrative neuroscience

Advisor: Anthony Fiumera, associate professor, biological sciences

Susceptibility of CG5610 on Male Mating Ability

Matthew Wersebe, junior, biological sciences

Advisor: Jessica Hua, assistant professor, biological sciences

Animal Pharm Pollution: Consequences of Agricultural Antimicrobials on Aquatic Communities

Carle Jordan Wirshba, senior, music and integrative neuroscience

Advisors: Daniel Thomas Davis, assistant professor, music – composition; and Christopher Bartlette, assistant professor, music – theory

Sounds Around, Emotions Within: A Creative and Empirical Exploration of Emotional Characteristics in Musical Composition & INSERT TITLE HERE, Effect of Titles on the Emotional Perception of a Musical Work

Paul Woods, graduate student, biological sciences

Advisor: Claudia NH Marques, assistant professor, biological sciences

Effect of introducing P. aeruginosa into S. aureus Biofilms

Stephanie Xue, freshman, undeclared; Jinhua Xie, sophomore, biological sciences; and Tongbo Xu, senior, biological sciences

Advisors: Anne Clark, associate professor, biological sciences; and Andria Kroner, graduate student, biological sciences

Nesting Vocalizations of the Mariana Crow (Corvus kubaryi)

Victor Yu, senior, mechanical engineering

Advisor: Shahrzad (Sherry) Towfighian, assistant professor, mechanical engineering

Analysis of Micro Butterfly Beams

Amanda Zucker, sophomore, biological sciences; and Kelly Bakker, junior, biological sciences

Advisor: James Sobel, assistant professor, biological sciences

The Genetic Basis of Adaptively Isolating Traits in Plants

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Biological sciences

Angie Ramirez
Undeclared

Yvonne Raychawdhuri
Biochemistry

Katheryn Rengifo
Undeclared

Briana Renois
Nursing

Adelle Ricci
Chemistry

Taj Robinson
Business administration

Baptiste Saliba
Engineering design

Brianna Sander
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Alessandra Schiavi
Psychology

Joseph M. Scuderi
Mathematical sciences

Zoe Shannon
Undeclared

Ryan Sharpelletti
Computer science and political science

Amy Sheinbaum

Undeclared

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Psychology

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Dean Spector

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Sara Stanziani

Human development

Elisabeth Stein

Integrative neuroscience

Bailey Summerfield

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Kismet Tomicich

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Savoy Curry

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Mentor: Elizabeth Casteen

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Mentors: Clara Barnhart, Maria

Gillan, Carolyn Keller

Ian Brill

English

Mentors: Clara Barnhart, Maria

Gillan, Carolyn Keller

Jacob Snyder

English

Mentors: Clara Barnhart, Maria

Gillan, Carolyn Keller, Joseph Weil

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Shai Lev

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Strianie S. Louis

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Timothy Li

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Nursing

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Nursing

Jennifer Swaine

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Nursing

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Kyle Fisk

Nursing

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Integrative neuroscience

Jamie Mondello

Integrative neuroscience

Maya Orlofsky

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Jenny Pak

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Mentor: Christopher Greene

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Aaron Penzel

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