Research Days
A series of events celebrating research, scholarship and creative activity

Poster sessions abstracts and recognition of student researchers
April 21, 2017
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
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 McLauchlin, junior, environmental studies and graphic design  
Advisor: Jessica Hua, assistant professor, biological sciences  
*Where the Wetlands End: An Art Exhibition*

Alec Michael Gaspary, 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 Kears, 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; Kaitlin Trick, sophomore, all in nursing; and Vivien Pan, sophomore, integrative neuroscience

Advitors: Judith Quaranta, assistant professor; Fran Smka-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

Wewei 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; Ayeesha Khakkar, junior, biological sciences; Tatiana Requijo, 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 Drosophilia melanogaster

Mikayla Brown, senior, biological sciences
Advisor: Omowummi 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
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

Saarah 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

Saarah 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: Kim 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 Kuehne, 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 Iafrate, 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 Iafrate, 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
Advisor: 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 Merrivether, 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 Mc Ardell, 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_
STUDENT RESEARCHERS

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Developmental Exposure Alcohol Research Center (DEARC)

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Jianle Gao  
Undeclared

Julian S. Garcia  
Undeclared

Joshua A. Gindi  
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<table>
<thead>
<tr>
<th>Name</th>
<th>Major/Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paige Gindi</td>
<td>Spanish language and literature</td>
</tr>
<tr>
<td>Juan Guzman</td>
<td>Integrative neuroscience and psychology</td>
</tr>
<tr>
<td>Ashlynn Haight</td>
<td>Undeclared</td>
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<tr>
<td>Ally Hartmayer</td>
<td>Undeclared</td>
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<td>Joseph Hashmall</td>
<td>Business administration</td>
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<tr>
<td>Dillon C. Hess</td>
<td>Chemistry</td>
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<tr>
<td>Mary Kate Kelly</td>
<td>Biological sciences and English</td>
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<tr>
<td>Armaan R. Khurana</td>
<td>Biological sciences</td>
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<tr>
<td>Niko Kritis</td>
<td>Engineering design</td>
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<tr>
<td>Emily Kuehnle</td>
<td>Biological sciences</td>
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<td>Nicole Laird</td>
<td>Business administration</td>
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<td>Liam G. Lane</td>
<td>Anthropology</td>
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<td>Edmond Lo</td>
<td>Biological sciences</td>
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<tr>
<td>Ariana Loncar</td>
<td>Business administration</td>
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<tr>
<td>Meneka Makhijani</td>
<td>Biochemistry</td>
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<tr>
<td>Karla Marte</td>
<td>Undeclared</td>
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<tr>
<td>Bradley Matican</td>
<td>Accounting and Spanish</td>
</tr>
<tr>
<td>Justin Martin</td>
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</tr>
<tr>
<td>Aaron Mok</td>
<td>Environmental studies and economics</td>
</tr>
<tr>
<td>William Moy</td>
<td>Undecided</td>
</tr>
<tr>
<td>Maytar Nebal</td>
<td>Business administration</td>
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<td>Emma Northrup</td>
<td>Biomedical engineering</td>
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<tr>
<td>Christina N. O’Hara</td>
<td>Undeclared</td>
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<tr>
<td>Khin Y. Oo</td>
<td>Anthropology</td>
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<td>Michael J. Padron</td>
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<tr>
<td>Jin A. Park</td>
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<td>Christina Patelllos</td>
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<td>Undeclared</td>
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<td>Ryan Sharpelletti</td>
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