The Aresty Research Center for Undergraduates Presents the 12th Annual

UNDERGRADUATE RESEARCH SYMPOSIUM

Friday, April 29, 2016 | 10:30am – 2pm
Livingston Student Center

aresty.rutgers.edu/symposium
Welcome to the 12th Annual Undergraduate Research Symposium at Rutgers. Among the largest celebrations of undergraduate research in the nation, the Aresty Symposium provides a platform for aspiring researchers at Rutgers to share their work with the community. This year’s event features more than 500 Rutgers undergraduates who have worked with nearly 300 professors from every school at Rutgers-New Brunswick, presenting their contributions to research in the sciences, social sciences, humanities, and the arts.

The Aresty Center’s mission is unique within the Big 10 and among research universities in general. Most schools reserve authentic research experiences for advanced students and place the burden of finding research projects squarely on the student. The Aresty Center, by contrast, encourages students at all stages of their education to get involved, and offers a transparent process for students to find faculty mentors, engage with cutting-edge research, and receive on-going support and professional development from a network of peers and advisors. Our goal is for engagement with research to be a defining feature of the undergraduate experience at Rutgers.

Yet collecting data in the lab, or samples in the field, or sources in the archive is only part of the research experience. Research is a fundamentally social endeavor: describing methods, sharing findings, and answering questions are critical parts of the research process. By participating in the Symposium today, either as a presenter or a guest, you join the dialogue that transforms research from ideas and data to findings, conclusions, and broader impacts for society. Thank you for contributing to the rich community of undergraduate research at Rutgers.

Chuck Keeton
Professor, Department of Physics & Astronomy
Faculty Director, Aresty Research Center for Undergraduates

Brian Ballentine, Ph.D.
Executive Director, Aresty Research Center for Undergraduates
AM POSTER SESSIONS

10:30am – 12:00pm

LUNCH

12:00pm Rutgers Zone

KEYNOTE ADDRESS

12:15pm
Livingston Hall

PM POSTER SESSIONS

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Danielle Alter | Advisor: Jenny Mandelbaum
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<td>Cell Biology and Neuroscience</td>
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<tr>
<td>Ankita Veta</td>
<td>Timothy Otto</td>
<td>Memory Formation in Object-Place Learning</td>
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<tr>
<td>Kathleen Vincent</td>
<td>Keith Cooper</td>
<td>The Craniofacial Effects of Ocean Acidification on 2013 Summer Flounder (Paralichthys dentatus)</td>
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<td>Miguel Vivar Lazo</td>
<td>Troy Shinbrot</td>
<td>Itokawa: A Case for Ballistic Segregation</td>
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<td>Daria Voskoboynikov</td>
<td>Barry Sopher</td>
<td>The Impact of Imperfect Information on Educational Investments</td>
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<td>Social Sciences</td>
<td>Economics</td>
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<tr>
<td>Name</td>
<td>Advisor</td>
<td>Title</td>
<td>Poster</td>
<td>Time</td>
<td>Event Area</td>
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<tr>
<td>Aaron Wach</td>
<td>David Crockett</td>
<td>Valproic Acid Ameliorates Spinal Cord Injury and Inflammatory Response</td>
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<td>PM (12:30 - 2:00)</td>
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<tr>
<td>Chris Wakim</td>
<td>Debashish Bhattacharya</td>
<td>Exploring Physiological Differences and Evolutionary Rate among Halotolerante Picoclorum Species</td>
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<td>Ecology, Evolution and Natural Resources</td>
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<td>Sarah Walsh</td>
<td>Nicholas Bello</td>
<td>Taste Preference in Engrailed-2 Knockout Mice</td>
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<td>Animal Science</td>
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<tr>
<td>Jieyu Wang</td>
<td>Nuria Sagarra</td>
<td>Guessing Before Hearing: Phonotactic Cues Predict Inflectional Morphology</td>
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<td>PM (12:30 - 2:00)</td>
<td>Humanities</td>
<td>Spanish and Portuguese</td>
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<td>Mingan Wang</td>
<td>Can Uslay</td>
<td>The Power of Using the CEO as the Brand Ambassador</td>
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<tr>
<td>Qining Wang</td>
<td>Stephen Garofalini</td>
<td>Structure Analysis of Aluminoborosilicate Glass Surfaces</td>
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<td>Materials Science and Engineering</td>
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<tr>
<td>Shira Wasserman</td>
<td>Judith Harrison</td>
<td>Determining Effectiveness of Classroom-Based Services for Youth with ADHD</td>
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<td>GSE - Educational Psychology</td>
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<tr>
<td>Sarah Waxman</td>
<td>Richard Ludescher</td>
<td>Food Colors as Intrinsic Luminescent Sensors in Edible Products</td>
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<td>Food Science</td>
</tr>
<tr>
<td>Aleksandra Wec</td>
<td>Leslie Fishbein</td>
<td>A Community Approach to Healthcare: Examining Free Clinics from the 1960s to Present Day</td>
<td>2</td>
<td>AM (10:30 - noon)</td>
<td>Humanities</td>
<td>American Studies</td>
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<tr>
<td>Sahani Wijesinghe</td>
<td>John Li</td>
<td>Noninvasive Technology for Continuous Tracking of Vascular Stiffness for Hypertension Application</td>
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<td>AM (10:30 - noon)</td>
<td>**STEM</td>
<td>Biomedical Engineering</td>
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<tr>
<td>Lauren Williams</td>
<td>Sarolta Takács</td>
<td>Borders, Caravans and Empire</td>
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<td>AM (10:30 - noon)</td>
<td>Humanities</td>
<td>History</td>
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</table>
Nathanael Wilson | Advisor: Alexander Pichugin
European Languages at Rutgers: A Multimedia Project
Presentation Station 43 | PM (12:30 - 2:00) | Humanities | Germanic, Russian, and East European Languages and Literatures

Taylor Wilson | Advisor: Dake Zhang
The Effects of Intentions and Preparation Programs on the Retention Rate of Special Educators
Poster 76 | PM (12:30 - 2:00) | Social Sciences | GSE - Educational Psychology

Jamie Wooding | Advisor: Jennifer Lynch
Morphology and Structural Analysis of Graphene-Reinforced Polymer Matrix Composites
Poster 324 | AM (10:30 - noon) | STEM | Materials Science and Engineering

Henry Wright | Advisor: Beth Ravit
Resilience Stormwater Runoff Mitigation Design and Analysis in Perth Amboy, NJ
Poster 268 | AM (10:30 - noon) | STEM | Environmental Science

Helen Xia | Advisor: Juan Dong
Genetic Mechanisms that Control Stem Cell Division and Differentiation in Plants
Poster 345 | AM (10:30 - noon) | STEM | Molecular Biology and Biochemistry

Laurel Yan | Advisor: Clark Chinn
Promoting Reasoning and Conceptual Change In Science
Poster 70 | PM (12:30 - 2:00) | Social Sciences | GSE - Educational Psychology

Mary Yan | Advisor: James Walkup
Stigma Against Mental Illness in the Workplace
Poster 125 | AM (10:30 - noon) | Social Sciences | Psychology - Clinical

Janice Yang | Advisor: Kenneth Irvine
Identifying the Mechanism of Interaction Between α-catenin and Ajuba LIM Protein.
Paper/Oral Presentation (May 4th) | Session 2 (3:30 - 5pm) | STEM | Molecular Biology and Biochemistry

Rachel Yang | Advisor: Fuat Celik
Synthesis of Hydrogen Annealed TiO2 for Photocatalytic Production of Sustainable Fuels
Poster 207 | AM (10:30 - noon) | STEM | Chemical and Biochemical Engineering

Saba Yasmin | Advisor: Toby Jones
The Effects of the Iraq Invasion on the Iraqi Public Health System
Presentation Station 48 | PM (12:30 - 2:00) | Humanities | History

Jeremy Yeaton | Advisor: Viviane Deprez
How Context and Intonation Influence How People Interpret Negative Expressions in French
Poster 88 | PM (12:30 - 2:00) | Social Sciences | Linguistics
Christine Yen | Advisor: Kasia Bieszczad
Epigenetic Modulation of Memory Strength, Maintenance and Overwriting
Poster 386 | AM (10:30 - noon) | STEM | Psychology

Hsinyo Yin | Advisor: Kang Li
A Systematic Review: Identification of Poor Sitting Posture in Smartphone Users and Methods to Measure Sitting Posture
Poster 308 | PM (12:30 - 2:00) | STEM | Industrial and Systems Engineering

Michelle Yong | Advisor: Jenny Mandelbaum
“What do you say....?”: Prompting as a Practice for Engaging Cooperation Among Family Members.
Poster 60 | AM (10:30 - noon) | Social Sciences | Communication

Timothy Yong | Advisor: Kang Li
2DoF Quadruped Walking Gait
Paper/Oral Presentation (May 4th) | Session 1 (2 - 3:30pm) | STEM | Industrial and Systems Engineering

Xiaofei Yu | Advisor: Larry Zamick
Surface Delta Interaction in the g7/2 - d5/2 Model Space
Poster 378 | PM (12:30 - 2:00) | STEM | Physics and Astronomy

Jiaoyue Yuan | Advisor: Eric Gawiser
Using Light Emitted by Hydrogen to Discover and Study Galaxies Two Billion Years After the Big Bang
Poster 370 | AM (10:30 - noon) | STEM | Physics and Astronomy

Iris Yung | Advisor: Kevin Blinn
Effects of a Glaze on the Compressive Strength of a Titania and Ball Clay Ceramic Body
Poster 315 | 1st AM (10:30 - noon) | STEM | Materials Science and Engineering

Amanda Zahorik | Advisor: Max Haggblom
Changes in the Membrane Lipid Composition of Arctic Acidobacteria in Response to Cold and pH Stress
Poster 160 | PM (12:30 - 2:00) | STEM | Biochemistry and Microbiology

Mudassar Zaidi | Advisor: Melike Baykal-Gursoy
Game Theory Research for Security Application
Poster 302 | PM (12:30 - 2:00) | STEM | Industrial and Systems Engineering

Ubtene Zamaninia | Advisor: Toby Jones
America, Oil and the War in the Middle East
Presentation Station 47 | PM (12:30 - 2:00) | Humanities | History
Katarzyna Zembrzuska | Advisor: Joshua Miller
Effect of Vitamin D and Vitamin D Receptors on Cognitive Function
Poster 359 | AM (10:30 - noon) | STEM | Nutritional Sciences

Ningfan Zhang | Advisor: Matt Matsuda
The Establishment of Social Innovation Lab
Poster 18 | PM (12:30 - 2:00) | Humanities | Honors College

Daoqi Zhang | Advisor: Kang Li
A Systematic Review: Identification of Poor Sitting Posture in Smartphone Users and Methods to Measure Sitting Posture
Poster 308 | PM (12:30 - 2:00) | STEM | Industrial and Systems Engineering

Elise Zhou | Advisor: Mark Wasserman
The Life and Times of Frank Hague: Mary T. Norton, New Jersey’s First Congresswoman
Poster 17 | AM (10:30 - noon) | Humanities | History

Angela Zhu | Advisor: Chien-Chung Huang
Effects of An Organization’s GTI Score on Its Expense Structure
Poster 128 | PM (12:30 - 2:00) | Social Sciences | Social Work

Eric Zhu | Advisor: Michael Shakarjian
Mechanism of Action of Sulfur and Nitrogen Mustard Blistering Agents on Skin in Vitro
Poster 344 | PM (12:30 - 2:00) | STEM | Medicine – Robert Wood Johnson Medical School

Wenxin Zhu | Advisor: Huaye Zhang
Microglial Phagocytosis in Different Stages of Development
Poster 204 | PM (12:30 - 2:00) | STEM | Cell Biology and Neuroscience

Sofia Zois | Advisor: Peggy Policastro
The Influence of Meatless and Vegetarian Food Labels on Food Taste Perception in College Students
Poster 66 | AM (10:30 - noon) | Social Sciences | Food, Nutrition and Health

Kenneth Zong | Advisor: Alexander Neimark
In-situ Synthesis of Metal Oxide Nanoparticle Nafion Composites
Poster 215 | PM (12:30 - 2:00) | STEM | Chemical and Biochemical Engineering

Nicole Zougheib | Advisor: Fuat Celik
Investigation of the Degradation Pathway of Phosphorus Containing nerve Agents on Metal Oxides
Poster 208 | AM (10:30 - noon) | STEM | Chemical and Biochemical Engineering
SESSION 1 PANEL PRESENTATIONS

2pm–3:30pm

Room 202A | Social Science Panel 1

Room 202B | STEM Panel 2

Room 202C | STEM Panel 3

SESSION 2 PANEL PRESENTATIONS

3:30 – 5pm

Room 202A | Humanities Panel 4

Room 202B | Social Sciences and STEM Panel 5

Room 202C | STEM Panel 6
Social Sciences Panel 1
Room 202A | 2-3:30pm

Julia Bordelon | Advisor: Asher Ghertner | Geography
Silence is Health: Centros Clandestinos as a Tool of Terror in Buenos Aires

Michael Denis | Advisor: Andrew Murphy | Political Science
Pulpit to Politics: The Impact of Paisleyism in Ulster Politics

Ankita Huckoo | Advisor: Shana Cole | Psychology
Perceptual Downgrades as a Form of Backlash for Gender Vanguards

STEM Panel 2
Room 202B | 2-3:30pm

Katelyn Dagnall | Advisor: Fuat Celik | Chemical and Biochemical Engineering
Characterization and Photocatalytic Activity of Low Pressure Flame Synthesized TiO₂ Nanoparticles

Jonathan Fetherolf | Advisor: Edward Castner | Chemistry and Chemical Biology
Structural Effects of Alkyl Chain Length and Branching in Ionic Liquid Cations

Melissa Gronske | Advisor: Keith Cooper | Biochemistry and Microbiology
The Effect of Chronic Exposure to PFNA on Morphology, Gene Expression and Fecundity in Zebrafish

Jacob Massa | Advisor: Fuat Celik | Chemical and Biochemical Engineering
A Computational Study of C- and N-doped Anatase TiO₂ (101) for Photocatalysis
Jasmeet Bawa | Advisor: Mark West | Psychology
Optogenetic Identification of the Direct and Indirect Pathways of the Basal Ganglia

Patrick Darcy | Advisor: Derek Sant’Angelo | Medicine - Molecular Bioscience - RWJ-Child Health Institute
Induced Effector Function by Ectopic Expression of Transcription Factors in T cells

Alexei Taylor | Advisor: Mark West | Psychology
The Influence of Ovarian Hormones on Eating Behavior and Neural Firing within the Nucleus Accumbens

Timothy Yong | Advisor: Kang Li | Industrial and Systems Engineering
2DoF Quadruped Walking Gait

Humanities Panel 4
Room 202A | 3:30-5pm

Janna Aladdin | Advisor: Toby Jones | History
Cholera Between Two Rivers

Jaime Geter | Advisor: Yana Rodgers | Women and Gender Studies
Working at the Pyramid Tonight: Identity Management and Economic Empowerment for Black and Latina Strippers

Nicoletta Romano | Advisor: Rhiannon Welch | Italian
Understanding “Postcolonizing” Italian Spaces Through Afro-Italian Migrant Literature
Social Science and STEM Panel 5
Room 202B | 3:30-5pm

Cassidy Burt | Advisor: Laurie Rudman | Psychology
Lay Beliefs about Implicit Attitudes: How Awareness of Unconscious Processes Affects Racial Bias

Megan Chen | Advisor: Nancy Woychik | Molecular Biology and Biochemistry
Functional analysis of Mycobacterium tuberculosis VapC toxins

Dana Manson | Advisor: Laurie Rudman | Psychology
Where Are The Female Coaches? Exploring Backlash Theory in Sport Leadership

Christopher Markosian and Janice Yang | Advisor: Kenneth Irvine | Molecular Biology & Biochemistry
Identifying the Mechanism of Interaction Between α-catenin and Ajuba LIM Protein

STEM Panel 6
Room 202C | 3:30-5pm

Nadiya Chuchvara | Advisor: Martin Schwander | Cell Biology and Neuroscience
Identification of Binding Proteins and Localization for Hair Cell Protein Pejvakin (DFNB59)

Rahul Patel | Advisor: Federico Sesti | Cell Biology and Neuroscience
Elucidating the Role of the Actin Cytoskeleton in the Thermal Stress Response of Cells

Meenal Paul | Advisor: David Crockett | Cell Biology and Neuroscience
In Vitro Analysis Of Microglial Inflammation
This event has been made possible by the generosity of Jerome and Lorraine Aresty and the support of the Office of Undergraduate Academic Affairs.