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I3TH ANNUAL
GEORGIA STATE UNDERGRADUATE RESEARCH CONFERENCE
PROGRAM OF EVENTS
April 10, 2019 | Student Center East (SCE)

8 – 9 a.m. Presenters check in and set up
Breakfast
Lobby (SCE 116)

9 – 9:45 a.m. Plenary session featuring Jasmine Nichole Cobb, Bacca Foundation
Associate Professor of African & African-American Studies and Art,
Art History and Visual Studies at Duke
University Speakers Auditorium (SCE 120)

9:45 – 10 a.m. Break

10 – 11 a.m. Poster presentations (session A) and artistic displays
State Ballroom (SCE 110)

11 – 11:15 a.m. Break

11:15 a.m. – 12:15 p.m. Oral presentations (session A) and musical performances
SCE 201, SCE 203, SCE 207, SCE 208, SCE 216, SCE 217, SCE 218, State Ballroom
(SCE 110) and Speaker’s Auditorium (SCE 120)

12:15 – 12:30 p.m. Break

12:30 – 1:30 p.m. Poster presentations (session B)
State Ballroom (SCE 110)

1:30 – 1:45 p.m. Break

1:45 – 2:45 p.m. Oral presentations (session B) and film displays
SCE 201, SCE 203, SCE 207, SCE 208, SCE 216, SCE 217, SCE 218 and Speaker’s
Auditorium (SCE 120)

2:45 – 3:30 p.m. Dessert reception
Lobby (SCE 116)

GSURC 2019 Keynote Address
Maged Henary, Associate Professor, Department of Chemistry

3:30 – 5 p.m. Awards presentation
Larry Berman, Dean of the Honors College
Sarah Cook, Associate Dean of the Honors College
Speaker’s Auditorium (SCE 120)

* NOTE: Please refer to the Author Index on p. 47 for
a list of authors, presentations and locations.
“New Growth: The Art and Texture of Black Hair After Emancipation”

Jasmine Nichole Cobb is the Bacca Foundation Associate Professor of African & African-American Studies and of Art, Art History and Visual Studies at Duke University, where she teaches courses on black visual culture and representation.

Cobb earned her Ph.D. from the University of Pennsylvania and is a recipient of the American Fellowship from the American Association of University Women. She is the author of “Picture Freedom: Remaking Black Visuality in the Early Nineteenth Century” (New York University Press, 2015) and has written essays for the journals *MELUS: Multi-Ethnic Literature of the United States, American Literary History* and *Public Culture*.

Cobb is at work on “New Growth: The Art and Texture of Black Hair After Emancipation,” which evaluates ideas about black freedom in art and print culture through the lens of black hair.

Cobb’s lecture is sponsored by the HIP at Georgia State University, a program funded by The Andrew W. Mellon Foundation.
Maged Henary (Ph.D. ’00) is an associate professor of chemistry at Georgia State and winner of the 2019 University Faculty Award for Undergraduate Research. He has mentored 38 individual undergraduate research projects over the last decade.

Henary earned a bachelor’s degree in chemistry from Alexandria University in Alexandria, Egypt, and a master’s degree in organic chemistry from Cairo University. He earned a Ph.D. in organic and medicinal chemistry from Georgia State in 2000.

Henary’s research focuses on the design and development of novel heterocyclic small molecules as anticancer agents and various classes of fluorescent near-infrared (NIR) dyes to be used in cancer imaging, lymph node mapping and therapy. Surgical resection is the main line of treatment for many diseases, and surgeons must depend on their eyes during surgery to make sure they have removed all the diseased tissue. Existing molecular imaging methods, such as positron emission tomography (PET) and single-photon emission computed tomography (SPECT), have shortcomings that prevent them from being used in operating rooms. Henary’s lab is heavily focused on progressing the NIR imaging field through the development of high-performance NIR fluorophores that can be used in image-guided surgery.

Henary has published more than 90 research and review articles in esteemed journals, including Nature Medicine, Accounts of Chemical Research, Advanced Materials and Angewandte Chemie. He serves on the editorial boards of Molecules, Heterocyclic Communications, Asian Journal of Chemistry and The Archive for Organic Chemistry. Henary has also obtained five patents corresponding to technology.
GEORGIA STATE UNDERGRADUATE RESEARCH CONFERENCE

The Georgia State Undergraduate Research Conference (GSURC) provides a forum for students across the university to present their scholarly work through poster or oral presentations, artistic and film displays, and musical performances. GSURC encourages and fosters undergraduate research as an important component of undergraduate education.

At our 13th annual GSURC, more than 430 students present research from 53 academic departments. Each project is supported by a faculty sponsor. General awards are given based on presentation type and discipline. In addition, the Office of Sustainability distributes specific awards based on sustainability and other environmental projects.

GSURC 2019 is hosted by the Honors College at Georgia State and co-sponsored by the university’s Center for the Advancement of Students and Alumni into Graduate School and Professional Programs (CASA) and by the Initiative for Maximizing Student Development (IMSD).
POSTER PRESENTATIONS
State Ballroom (SCE 110)

Session A  10 – 11 a.m.
Session B  12:30 – 1:30 p.m.
1-A Exploring the Dietary Proclivities of Neandertals Using Dental Microwear
LAURA DIAZ-VILLAQUIRAN
Anthropology
Faculty Sponsor: Frank Williams

2-A Observing the Variation in Dental Morphology Between an Earlier and Later Neolithic Cave Burial of Belgium
AUTUMN EDMUNDSON
Anthropology
Faculty Sponsor: Frank Williams

3-A Comparison of Occlusal Molar Outlines of Two Late Neolithic Cave Sites of Belgium Using Elliptical Fourier Analysis
AFIA VASSALL
Anthropology
Faculty Sponsor: Frank Williams

4-A Putting the Wolf Before the Plow: Why the First Domesticates Were Much More Than Food
KIM MYERS
Anthropology
Faculty Sponsor: Frank Williams

5-A “Get a Job” or “Go to Bed”: Studying the Development of Verb Patterns in English Learner Language at Different Proficiency Levels
RILEY LITZENBERGER | Arly Salinas
Applied Linguistics & ESL
Faculty Sponsor: Ute Römer

6-A Imaging Star Spots Beyond Our Sun
ELLIE LINCOLN
Physics & Astronomy
Faculty Sponsor: Fabien Baron

7-A FGF Expression in the Forebrain Has Effects on Convict Cichlids’ Monogamous Behavior
AMBER AJAMU-JOHNSON | Bernadine Panganiban | Megan Gretz | Lola Sewo
Biology
Faculty Sponsor: Jonathan Sylvester

9-A Development of Monogamy in Convict Cichlids
DIEYNABOU DIALLO | Adj Kante | Millat Gedefa | Jedidiahy Hailu
Biology
Faculty Sponsor: Johnathan Sylvester

10-A Temperature Effects on Cognition Performance and Physiology
TAYLOR FARR | Claire Chinery
Biology
Faculty Sponsor: Matthew Grober

11-A A Post-Hurricane Assessment of Acropora palmata Colonies in Salt Pond Bay, St. John, USVI
MADISON FLOYD
Biology
Faculty Sponsor: Rebekah Chapman
12-A Investigating Oxytocin and Vasopressin in Convict Cichlids' Monogamy  
AQEELEAH GILFORD  
Biology  
Faculty Sponsor: Jonathan Sylvester

13-A Characterization of Two WD40 Proteins in Trypanosomatid Parasites  
SUJAY GREENLUND  
Biology  
Faculty Sponsor: Paul Ulrich

14-A Musical Therapy: Effects on Heart Rate and Blood Pressure  
RUBAB HUSAIN | Sarah Chomthakham  
Biology  
Faculty Sponsor: Matthew Grober

15-A Investigation of a New Viral Protein Identified From the Recent Expanded mRNA Transcriptome Analysis of Simian Hemorrhagic Fever Virus (SHFV)–Infected Cells  
DESTINY HUTCHINSON  
Biology  
Faculty Sponsor: Margo Brinton

16-A Evaluation of Sonic Hedgehog Pathways Using In Situ Hybridization to Find Causation of Monogamous Convict Cichlids  
VIVIAN HUYNH | Akshara Erasani | Shelby Goins | Tasneem Madan  
Biology  
Faculty Sponsor: Johnathan Sylvester

17-A Evolutionary Relationships in the Euglossine Bee–Pollinated Orchid Genus, Stanhopea  
CHAZZ JORDAN | Becky Brinkman | Emily Coffey | Lauren Eserman  
Biology  
Faculty Sponsor: Rebekah Chapman

18-A The Effects of Fry Development on the Behavior of Convict Cichlid Couples  
AZARIAH KNIGHT | John Isaac Waters | Demetria Walker | Ethan Collins | Daniel Tehrani  
Biology  
Faculty Sponsor: Matthew Grober

19-A How to Stress an Already Stressed Fish: An Analysis on the Endocrine Response of Costa Rican Convict Cichlids to a Standard Stressor  
SANDRA MACEDO | Carissa Apparicio | Melissa Cuevas | Aqeelah Gilford  
Biology  
Faculty Sponsor: Edmund Rodgers

20-A The Antimicrobial Effects of Zingiber officinale as Observed in a Winogradsky Column  
MARILYN MILLETT  
Biology  
Faculty Sponsor: Samantha Parks

21-A Analysis of the Photoluminescent Properties of Various Chalcone Derivatives  
ANDREW BROWNE | Lisa Medina | Shaina Song | Rick Hollis  
Chemistry  
Faculty Sponsor: Jeremiah Harden
22-A Purification of Flavoprotein NMO
AMADOU DIALLO | Kevin Kim | Jihyun Sim | Victoria Mariani
Chemistry
Faculty Sponsor: Victoria Mariani

23-A Purification of C-Terminal Protein of Mumps Virus With His-Tag Ni 2+ Affinity Chromatography
VAN DUONG | Ugo Kalu | Yen Tang | Victoria Mariani
Chemistry
Faculty Sponsor: Victoria Mariani

24-A Biophysical Analysis of the Heme Uptake Protein ChtA From Corynebacterium diphtheriae
ANNE JEAN | Catherine Odhiambo | Daniel Wongo
Chemistry
Faculty Sponsor: Dabney Dixon

25-A Development of Integrin αvβ3 Targeted Protein-Based MRI Contrast Agent for Early Detection of Liver Metastasis
ROGELIO IBARRA
Chemistry
Faculty Sponsor: Jenny Yang

26-A Innovative Gadolinium-Based MRI Contrast Agent with Chemokine Receptor 4 Binding Affinity, hProCA32.CXCR4, for Early Detection of Liver Metastasis
DO HYUN KONG
Chemistry
Faculty Sponsor: Jenny Yang

27-A Electromyography Light Controller
FABIAN KIM
Computer Science
Faculty Sponsor: Ashwin Ashok

28-A Detecting the Directional Transmission of Viral Quasispecies Through Inferences of Genetic Relatedness
BRITTANY MILLS | Pavel Skums | Walker Gussler
Computer Science
Faculty Sponsor: Pavel Skums

29-A Does Annotating Documents Using a Human-Derived Ontology Improve Classification?
IZIK MOORE | Amber Tannahill | Jessica Turner | Matthew Turner
Computer Science
Faculty Sponsor: Jessica Turner

30-A Atlanta Police Misconduct: What It Is and What It Isn't
CHRISTOPHER AUSBURN
Criminal Justice & Criminology
Faculty Sponsor: Marie Ouellet

31-A Exclusionary Zoning
CONNER HOLT
Economics
Faculty Sponsor: Glenwood Ross
32-A Service Learning in the Works: Developing Young Minds in Atlanta Public High Schools
JASMINE BARNETT | Kiara Henry | Alexis Casa | Nancy Tran
Learning Services
Faculty Sponsor: Tracy McKinney

33-A Service Learning: The Impact and the People
JASMINE DEARMAN | Sarah Adeosun | Amber Johnson | Kaitlynn Grant | Fatina Coulibaly
Learning Services
Faculty Sponsor: Tracy McKinney

34-A Coral Bay Watershed Management Project: Coral Harbor Marine Inventory Project
DECEMBER WEIR
Environmental Science
Faculty Sponsor: Rebekah Chapman

35-A Sensory Nerve-Mediated and Nitric Oxide-Dependent Validation
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DEMETRIA WALKER | Casey Hollowed | Miller James | Jeffrey Otis | Quyyumi Arshed | Wong Brett
Kinesiology & Health
Faculty Sponsor: Brett Wong

36-A Exploring the Geochemical Composition of the Mantle in the South Central
American Region from Xenoliths Obtained from the Panamanian Arc
LISA DUONG | Jennifer Bash
Geosciences
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37-A The Intersection of ISIS Video Production and Influencing Events
UMNIAH AL BAYATI | Matthew Mottet | Ana Petrova
Global Studies
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38-A To Enforce a Firm and Lasting Peace: MINUGUA, Impunity
and Human Rights Violations in Post-War Guatemala
ISABELLA SCHIWY
History
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39-A Measuring Trends in Securities Fraud Litigation Using Text and Image Analytics
MARCUS AQQUI
Law
Faculty Sponsor: Charlotte Alexander

40-A A Short-Term Memory Model Based on Hopfield Neural Network
PHU PHAM
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Faculty Sponsor: Vladimir E. Bondarenko

41-A Beat Tracking: Formulaic Rhythm Analysis
MAX CALDERON
Mathematics & Statistics
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42-A Relations Between White Matter Tract Integrity and Active Motor Threshold in Transcranial Magnetic Stimulation
HUMZA BAIG
Neuroscience
Faculty Sponsor: Robin Morris

43-A Adaptive Functioning in Nontraditional Compared to Traditional Students
KYLE PUFFENBERGER | Eric Semmel | Rella Kautianen | Michelle Fox
Neuroscience
Faculty Sponsor: Tricia King

44-A Relations Between White Matter Tract Integrity and Changes in Phonemic Decoding Following Transcranial Magnetic Stimulation to the Supramarginal Gyrus
SEAN ROGERS | Candice Arrington | Robin Morris | Humza Baig
Neuroscience
Faculty Sponsor: Robin Morris

45-A Oral Antibiotic Effects on Cocaine Intake and Gut Physiology
BENJAMIN ANTHONY | Jennysue Kasiah
Neuroscience
Faculty Sponsor: Kyle Frantz

46-A The Ancient Origins of TRP-Dependent Chemical Sensing
MAGGIE BENSON | Nathaniel Himmel | Jamin Letcher | Thomas Gray | Daniel Cox
Neuroscience
Faculty Sponsor: Daniel Cox

47-A Effects of Postprandial Optogenetic Inhibition of Hippocampal-Septal Projections on Subsequent Energy Intake in Male Rats
STEVEN DAVIS | Janavi Ramesh | Marise Parent
Neuroscience
Faculty Sponsor: Marise Parent

48-A The Chemosensory Basis of Feeding Behavior by the Pacific White Shrimp, Litopenaeus vannamei
DANA EAP
Neuroscience
Faculty Sponsor: Charles Derby

49-A DNA Methylation Mediates Sexual Differentiation of Calbindin Cell Number in the Mouse Brain
ILONA GOLYNKER | Carla D. Cisternas | Laura R. Cortes | Nancy G. Forger
Neuroscience
Faculty Sponsor: Nancy G. Forger

50-A The Role of BK and L-Type Calcium Channels in the Electrical Activity Pattern of Neurons and the Possible Effects of Temperature on the Combined Dynamic
BENJAMIN GRANTIER
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Faculty Sponsor: Gennady Cymbalyuk

51-A The Role of RNF216/TRIAD3 in Neuroinflammation Through Degradation of Toll-Like Receptors
DUSTIN GROSSMAN | Arlene George
Neuroscience
Faculty Sponsor: Angela Mabb
52-A Translating the Evidence: Creating Web-Based Modules for Caregivers of Children Requiring Medical Technology
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53-A Strawberry Polyphenol Extract Decrease Interleukin-6 Expression in Lipopolysaccharide (LPS)-Induced RAW 264.7 Macrophages
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54-A Effects of Aging on Scintillating Hadronic Calorimeter Tiles for the sPHENIX Particle Detector
SAIF ALI
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Faculty Sponsor: Megan Connors

55-A Visible and Infrared Spectroscopy for the Characterization of Cyanobacterial Cell Growth
DANIEL RANKE
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56-A Is “The Purge” Already Happening?
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57-A Prime Minister Sex and Popularity: An Analysis of Eight Parliamentary Democracies
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GEMIRA HARRIS
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CHIAMAKA NWOKEOCHA
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EVE ROBERTSON
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AZARIAH KNIGHT
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Faculty Sponsor: Mattew Grober

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Biology
Faculty Sponsor: Robert Maxwell

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Biology
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CHEYENNE MCBEAN  
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ASTRID TARLETON | Stefanie Casa  
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Chemistry  
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Computer Science  
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110-B  **Malware Vigilante: Building Robust Malware Detection Systems by Crafting Immunity**  
AHMED ZAHRAN  
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111-B  **Quantifying the Survival and Recovery of Elkhorn Coral (Acropora palmata) in the Eastern Portion of Salt Pond Bay, St. John, USVI**  
GILLIAN GILBERT-WASON  
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KEVIN VETTICKATT  
Economics  
Faculty Sponsor: Grace Eau

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LEIGHLEE MAHONY | Amani Talwar | Michelle Ogrodnick | Iris Feinberg | Daphne Greenberg  
Learning Sciences  
Faculty Sponsor: Daphne Greenberg
114-B Service Learning as a Mechanism to Disrupt Silos, Enact Social Change and Promote STEM Education
SCOUT MORGAN
Middle & Secondary Education
Faculty Sponsor: Natalie King

115-B From Community to the Classroom: Assessing Service-Learning Approaches in Higher Education
ANUOLUMUPO TITILAYO-SAMUEL | Sarah Beth Johnson |
Lexie Newhouse | Lindya Gossa | William Bell
Learning Services
Faculty Sponsor: Tracy McKinney

116-B Self-Determination for Exercise Among Employees
PHUNG TRAN
Kinesiology & Health
Faculty Sponsor: Rebecca Ellis

117-B Occurrences of the Rare-Earth Elements in Bauxites, Georgia Coastal Plain
DUSTIN MIMNAUGH | David Davis | Lindsey Wilkinson | Hui Zheng
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118-B Geography and Religion as Factors of Rescuer Behavior in the Genocide of Tutsi in Rwanda
BRITNI WRIGHT | Isabella Schiwy | Benjamin Belisle | Clay Voytek
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120-B The Minimal Number of Generators of a Semigroup Ring and the Frobenius Coin Exchange Problem
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121-B The Analysis of Somerville Happiness Survey
JIAJI TIAN
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122-B College Musicians’ Psychophysiological Responses to Music Performance Anxiety Assessed as an Ensemble
KATE SCHWARZ
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123-B Engaging the New Generation in Choral Music
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124-B Effects of Birth Mode on the Activation of Vasopressin Neurons in the Mouse Hypothalamus
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125-B Effects of Birth Timing on Patterns of Cell Death in the Perinatal Mouse Brain
TAYLOR HITE
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126-B Grooming and Social Avoidance Behavior Following Acute and Repeated Social Defeat in Male and Female Syrian Hamsters
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Neuroscience
Faculty Sponsor: Kim Huhman

127-B Neuromodulation of a Rhythmic Neuronal Circuit: Mechanisms Targeting Na+/K+ Pump Current
SIDDHARTH NATHAM | Gennady Cymbalyuk
Neuroscience
Faculty Sponsor: Gennady Cymbalyuk

128-B Gender Comparison of Gray Matter Concentration Within Prodromal Huntington’s Disease
DESTINY OGBU | Jennifer Ciarochi | Jessica Turner
Neuroscience
Faculty Sponsor: Jessica Turner

129-B Ventral Hippocampal NMDARS Inhibit Future Intake in Rats
ADAGUGO OKPAREKE | Reilly Hannapel | Marise Parent
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Faculty Sponsor: Marise Parent

130-B Organization of the Sensory System of the Tailfan of the Crayfish Procambarus clarkii
DANIEL PULIDO
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Faculty Sponsor: Manfred Schmidt

131-B The Role of Age, Sex and Chronic Pain on Microglia-related Neuroinflammation in the Rat Periaqueductal Gray
MEIRA ROBBINS
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Faculty Sponsor: Anne Murphy

132-B The Effect of Early Visual Experience on Inhibitory Synapses in the Visual Pathway
NITHEYAA SHREE | David Mudd | Parag Juvale | Sarah Pallas
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133-B Impact of Advanced Age and Sex on μ Opioid Receptor Function and Morphine Efficacy in the Rat Periaqueductal Gray
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ROBERT WILSON | Lisa Duong
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136-B Overshooting in Stars at Different Ages
KARA GARTNER
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Faculty Sponsor: Jane Pratt

137-B Kinematic Modeling for Seyfert Galaxies NGC 1068 and NGC 4151
FRANCISCO MARTINEZ | Mitchell Revalski | Crystal Gnilka | Beena Meena | Travis Fischer
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Faculty Sponsor: Michael Crenshaw

138-B The Great Game of Geopolitics: How Was Geopolitics Conducive to Authoritarianism in Vietnam and Pakistan During the 20th Century?
JENNY PHAM
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Faculty Sponsor: Rashid Naim

139-B Guiding Future Community Leaders of Tomorrow: The Influence of a Youth Development Program on Youths’ Civic Responsibility and Leadership
RENITA MOORE | Scot Seitz
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Faculty Sponsor: Gabriel Kuperminc

140-B Social Anxiety as a Predictor of Problematic Patterns of Interpersonal Behavior
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141-B Recognizing Unfamiliar Faces: When Imagery Ability Plays a Role
NATALIE NEUGEBAUER | Typhanie Hall | Catherine Williams | Megan Capodanno
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Faculty Sponsor: Heather Kleider-Offutt

142-B Treatment Barriers Among International College Students
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143-B Neuroanatomical Correlates of Aggressive and Nonaggressive Rule-Breaking Behavior in Children
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144-B Spirituality and Secure Attachment
SYDNEY REESE
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Faculty Sponsor: Erin Tone
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Faculty Sponsor: Sarah Brosnan

156-B  Mental Health and Interpersonal Violence in the Lives of Incarcerated Women
NANCY TRAN
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Faculty Sponsor: Sarah Cook

157-B  Adolescent Age and Alcohol Effects on Functional Network Connectivity
AMBER TANNAHILL | Sarah Clark | Jessica Turner
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158-B  How Negative Content of Auditory Verbal Hallucinations Affects Distress and Resting State Connectivity
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159-B  Why Is It Hard for Latinos to Talk About Mental Health?
MONICA SOTO MENDEZ
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Faculty Sponsor: Carlos Pavão

160-B  Prescription Opioids: The New Epidemic
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Public Health
Faculty Sponsor: Carlos Pavão

161-B  Don’t Judge: You Could Have a Mental Illness, Too!
MELISSA WILLIAMS DUPREE
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Faculty Sponsor: Carlos Pavão

162-B  Adverse Childhood Experiences
D. EUGENE MARTIN
Public Health
Faculty Sponsor: Carlos Pavão

163-B  The Immigrant Population’s Experience With Infertility in Western Europe
CHRISTLEE ELMERA
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Faculty Sponsor: Carlos Pavão

164-B  The Poisoned Generation: Lead Exposure in Children
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Faculty Sponsor: Carlos Pavão
165-B  Components of Effective Opioid Addiction Treatment  
GRAYSON GUNN  
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Faculty Sponsor: Carlos Pavão

166-B  How Does Airway Resistance Affect Lung Volume in a Simulated Asthmatic Patient?  
JENNIFER ONG  
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167-B  Barriers to Service Care Provision in the Atlanta Homeless Youth Community  
ZOE WEBB  
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168-B  Expressions and Sexual Practices of South Asians in the United States  
AYESHA KHAN  
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Faculty Sponsor: Faidra Papavasiliou
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<td>TONY SMART</td>
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<td>BRANDON WYLIE</td>
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MUSICAL PERFORMANCES
Speaker’s Auditorium (SCE 120)

11:15 a.m. – 12:15 p.m.
1. The Historical and Modern Repercussions of Orientalism in Western Music
   Author: Bethany Davison
   Performer: Bethany Davison
   Faculty Sponsor: Kyle Jenkins

2. The Five Stages of Grief
   Author: Quinten Hansen
   Performers: Neiol Cole (oboe), Jill Benway (flute), Quinten Hansen (piano)
   Faculty Sponsor: Lara Dahl

3. Into the Night
   Author: Amarjeet Ranhotra
   Performers: Spring 2018 Harrison Singers (choir), Suzanne Louge (piano)
   Faculty Sponsor: Deanna Joseph

4. Performance Practice in Malcolm Arnold’s “Divertimento for Wind Trio”
   Authors: Douglas Tiller | Ian Hardemon | Chris Kowalewski
   Performers: Chris Kowalewski (flute), Ian Hardemon (clarinet), Douglas Tiller (saxophone)
   Faculty Sponsor: Jan Baker
FILM DISPLAYS

Speaker’s Auditorium (SCE 120)

1:45 – 2:45 p.m.
1. **The Heart of Krump**  
   JOSHUA CLEVELAND  
   Faculty Sponsor: Robbie Land

2. **Elohi**  
   LIV FALLON  
   Faculty Sponsor: Robbie Land

3. **Amalgamated Spawn**  
   BLAKE LOWE  
   Faculty Sponsor: Robbie Land

4. **International Human Trafficking Institute (IHTI)**  
   **Public Service Announcement**  
   CATHERINE RAKOWIECKI  
   Faculty Sponsor: Cynthia Searcy
ORAL PRESENTATIONS
Student Center East, Suites 201, 203, 207, 208, 216, 217, 218 and State Ballroom (SCE 110)

Session A  11:15 – 12:15 a.m.
Session B  1:45 – 2:45 p.m.
## SCHEDULE

### SESSION A  |  11:15 a.m. – 12:15 p.m.

**SCE 201 (IMSD Session I)**
1. Aaliya Ahmad — Neuroscience
2. Rachael Beaumont — Neuroscience
3. Mykayla Jeter — Psychology

**SCE 203 (IMSD Session II)**
1. Lamiyah Mussaji — Neuroscience
2. Daniel Wongo — Chemistry

**SCE 207**
1. Jeremy Ford — Sociology and African-American Studies
2. La’Gera LaBeaud — African-American Studies
3. Sinamen MaGee — African-American Studies

**SCE 208**
1. Koree Badio — Psychology
2. Olympia Bigby — Sociology
3. August Smith — Sociology

**SCE 216**
1. Ariannah Kubli — English
2. Gayla Tillman — African-American Studies
3. William Vonk — English

**SCE 217**
1. Paula Garzon — Biology
2. Andrew Peng — Biology and Computer Science
3. Nishant Sinha — Computer Science

**SCE 218**
1. Rachel Burke — Philosophy
2. Madison Higbee — Sociology
3. Ebony Short — African-American Studies

**State Ballroom**
1. Jason Archer — Film, Media & Theatre
2. Cole Henry — Film, Media & Theatre
3. Evan Malbrough — Music

### SESSION B  |  1:45 – 2:45 p.m.

**SCE 201 (IMSD Session III)**
1. Jasmine Jones — Psychology
2. Jennysue Kasia — Neuroscience and Biology
3. Linzie Taylor — Psychology

**SCE 203**
1. Ravyn Alford — African-American Studies
2. Kabriea Haley — African-American Studies
3. Eddie Matheney — African-American Studies

**SCE 207**
1. Teodora Mitroi — Neuroscience and Mathematics & Statistics
2. Richard Powers — Anthropology
3. Ashley Richardson — Anthropology

**SCE 208**
1. Thomas Flint — Philosophy
2. Nancy Ramirez — Religious Studies
3. Clifvette Webb — Philosophy

**SCE 216**
1. Victoria Godwin — Economics
2. Jared Greathouse — Political Science and Public Management & Policy
3. Jonatas Teixeira Prates — Economics

**SCE 217**
1. Mariana Ortiz — Public Health
2. Savannah Setter — Anthropology and Public Health
3. Ryan Walden — Physics, Computer Science and Kinesiology & Health

**SCE 218**
1. Donovan Giardina — Criminal Justice & Criminology
2. Lexie Newhouse — Creative Media Industries Institute
3. Jacob Snyder — Applied Linguistics & ESL
**SESSION A**

11:15 a.m. – 12:15 p.m. | SCE 201*

| 1. Sensory System of the Second Antenna of the American Lobster, *Homarus americanus*: Distribution of Sensilla and Expression of Receptor Proteins  
AALIYA AHMAD  
Neuroscience  
Faculty Sponsor: Charles Derby |
| 2. V1aR Antagonism Within the Lateral Habenula Alters Communication in Male Mice  
RACHAEL BEAUMONT | Nicole Rigney  
Neuroscience  
Faculty Sponsor: Aras Petrulis |
| 3. Morphology of the Thalamus in Children with Developmental Dyslexia and Attention Deficit Hyperactivity Disorder  
MYKAYLA JETER | C. Nikki Arrington | Robin Morris  
Psychology  
Faculty Sponsor: Robin Morris |

*IMSD Session I*
1. **Assessing the Efficacy of Morpholino Antisense in Reducing Vasopressin Expression in the Paraventricular Nucleus of the Hypothalamus (PVN)**
   LAMIYAH MUSSAJI  
   Neuroscience  
   Faculty Sponsor: Aras Petrulis

2. **Characterization of the Heme Uptake Protein ChtA From Corynebacterium diphtheriae**
   DANIEL WONGO  
   Chemistry  
   Faculty Sponsor: Dabney Dixon
SESSION A

11:15 a.m. – 12:15 p.m. | SCE 207

1. When a Black Man Walks
   JEREMY FORD
   Sociology and African-American Studies
   Faculty Sponsor: Jeffrey Coleman

2. The Role of Poetry in Academia
   LA’GERA LABEAUD
   African-American Studies
   Faculty Sponsor: Jamae Morris

3. Authenticity in Hip-Hop: Who’s a Real Rapper and Who Ain’t One
   SINAMEN MAGEE
   African-American Studies
   Faculty Sponsor: Jamae Morris
SESSION A

11:15 a.m. – 12:15 p.m. | SCE 208

1. Does Emotional Expression Matter? Categorization of Faces Within Race
KOREE BADIO | Alesha Bond
Psychology
Faculty Sponsor: David Washburn

2. The Burden of Strength and the Strong Black Women in African-American Churches
OLYMPIA BIGBY
Sociology
Faculty Sponsor: Jamae Morris

3. Does School Diversity Promote Racially Equitable STEM Outcomes in Metro Atlanta Area High Schools?
AUGUST SMITH
Sociology
Faculty Sponsor: Tomeka Davis
SESSION A
11:15 a.m. – 12:15 p.m. | SCE 216

ARIANNAH KUBLI
English
Faculty Sponsor: Chris Kocela

2. Them Same Folk: An Analysis of the American Literary Canon
GAYLA TILLMAN
African-American Studies
Faculty Sponsor: Jamae Morris

3. The Bundren Blues
WILLIAM VONK
English
Faculty Sponsor: Pearl McHaney
1. Increase in Medial Prefrontal Cortex Functionality Leading to Increase of Mental Illnesses of Human Trafficking Victims
   PAULA GARZON
   Biology
   Faculty Sponsor: Jonathan Sylvester

2. Optimizing the Speed at Which Cells Close Wounds
   ANDREW PENG
   Biology and Computer Science
   Faculty Sponsor: Yi Jiang

3. A Mobile and Low-Cost Spectrophotometry-Based Water-Quality Monitoring System Using Off-the-Shelf Cameras
   NISHANT SINHA
   Computer Science
   Faculty Sponsor: Ashwin Ashok
SESSION A
11:15 a.m. – 12:15 p.m. | SCE 218

1. **Endangering Transgender Prisoner Rights With the Overhaul of PREA**
   RACHEL BURKE
   Philosophy
   Faculty Sponsor: Andrew J. Cohen

2. **Conversion Therapy in the South: Who Are the Survivors?**
   MADISON HIGBEE
   Sociology
   Faculty Sponsor: Eric Wright

3. **How Does Cisheteropatriarchy Affect Queer and Trans People of Color?**
   EBONY SHORT
   African-American Studies
   Faculty Sponsor: Jamae Morris
SESSION A

11:15 – 12:15 p.m. | STATE BALLROOM (SCE 110)

1. **“Hellblade”: Senua’s Psychosis and Female Identity**  
   JASON ARCHER  
   Film, Media & Theatre  
   Faculty Sponsor: Ashley Jones

2. **Culinary Colonialism and the Novum in “Cowboy Bebop”**  
   COLE HENRY  
   Film, Media & Theatre  
   Faculty Sponsor: Cameron Kunzelman

3. **An Analysis of the Music of ISIS and the Taliban**  
   EVAN MALBROUGH  
   Music  
   Faculty Sponsor: Weeda Mehran
SESSION B

1:45 – 2:45 p.m. | SCE 201*

1. **Who’s to Blame: Working Memory, Cognitive Load and Victim Race**
   JASMINE JONES | Alesha Bond | Kevin Swartout
   Psychology
   Faculty Sponsor: David Washburn

2. **Impact of Gut Dysbiosis on Cocaine-Seeking in Adolescent and Adult Male Rats**
   JENNY SUE KASIAH | Benjamin Anthony | Gregory Suess | Bonnie Williams |
   Benoit Chassaing | Kyle Frantz
   Neuroscience and Biology
   Faculty Sponsor: Kyle Frantz

3. **Race and Interpretation Bias: How Do Race and Threat Interpretation Bias Relate in People With Social Anxiety?**
   LINZIE TAYLOR | Anthony Malloy | Page Anderson
   Psychology
   Faculty Sponsor: Page Anderson

*IMSD Session III
SESSION B
1:45 – 2:45 p.m. | SCE 203

1. **Patriarchal Patterns of Sexism**  
RAVYN A. ALFORD  
African-American Studies  
Faculty Sponsor: Jamae Morris

2. **What’s in a Name? Identifying as Feminist or Womanist**  
KABRIEA HALEY  
African-American Studies  
Faculty Sponsor: Jamae Morris

3. **Childhood Obesity**  
EDDIE MATHENEY  
African-American Studies  
Faculty Sponsor: Jamae Morris
1. **Optimizing a Neural Behavior Model of the Sea Slug Melibe leonina**  
   TEODORA MITROI | Andrey Shilnikov | Jassem Bourahmah  
   Neuroscience and Mathematics & Statistics  
   Faculty Sponsor: Andrey Shilnikov

2. **A Study on the Integration of Refugees Through the Lenses of Time, Language and Institutional Navigation**  
   RICHARD POWERS  
   Anthropology  
   Faculty Sponsor: Emanuela Guano

3. **Smoking on Campus: Breaking the Rules or Defying Them? An Anthropological Approach**  
   ASHLEY RICHARDSON  
   Anthropology  
   Faculty Sponsor: Cassandra White
SESSION B

1:45 – 2:45 p.m. | SCE 208

1. Is “Do No Harm” Enough? Negative Duties, Positive Duties and Thomas Pogge’s Health Impact Fund
   THOMAS FLINT
   Philosophy
   Faculty Sponsor: Andrew Cohen

2. Applying Religious Studies: Islam, Death and the Afterlife
   NANCY RAMIREZ
   Religious studies
   Faculty Sponsor: Molly Bassett

3. Finding Middle Ground: Evaluating the Threshold of Justification for Animals Used in Experimentation
   CLIFVETTE WEBB
   Philosophy
   Faculty Sponsor: Sandra Dwyer
1. **Implications of Unilateral Divorce Laws in the United States**  
   Victoria Godwin  
   Economics  
   Faculty Sponsor: Goncalo Monteiro

2. **Scalpel... Hammer... Causal Analysis of Leadership Removal and Military Interventions in Mexico’s Drug War**  
   Jared Greathouse  
   Political Science and Public Management & Policy  
   Faculty Sponsor: Eric Sevigny

3. **The Effect of Early Childhood Year-Round Education on Overweight and/or Obesity**  
   Jonatas Teixeira Prates  
   Economics  
   Faculty Sponsor: Lorenzo Almada
SESSION B
1:45 – 2:45 p.m. | SCE 217

1. Asset-Based Community Development in Underserved Communities
   MARIANA ORTIZ | Katherine Suarez
   Public Health
   Faculty Sponsor: Emily Graybill

2. Displays of Compassion and Expertise: A Discourse Analysis of Global Health Web Presence
   SAVANNAH SETTER | Scarlett Mayoralgo | Katherine Leek | Kristina Ellis | Marissa Rodriguez
   Anthropology and Public Health
   Faculty Sponsor: Steven Black

3. Project Hand
   RYAN WALDEN | Chris Guerrant | Michael Nelson
   Physics, Computer Science, and Kinesiology & Health
   Faculty Sponsor: Tiffany Green-Abdullah
SESSION B

1:45 – 2:45 p.m. | SCE 218

1. **Local Policy Staffing**
   DONOVAN GIARDINA
   Criminal Justice & Criminology
   Faculty Sponsor: Dean Dabney

2. **Encouraging Private Sector and Higher Education Collaboration Within the Creative Media Space**
   LEXIE NEWHOUSE
   Creative Media Industries Institute
   Faculty Sponsor: David Cheshier

3. **Examining Correlations Between Automated Lexical Diversity (LD) Measures (Utilizing [TAALED]) and Human Judgments**
   JACOB SNYDER
   Applied Linguistics & ESL
   Faculty Sponsor: Scott Crossley
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**NOTE:** Posters and artistic displays are in the State Ballroom (SCE 110). Poster session A runs from 10 – 11 a.m., and poster session B runs from 12:30 – 1:30 p.m. Artistic displays run from 10 – 11 a.m.

Oral presentations are in SCE suites 201, 203, 207, 208, 216, 217 and 218 and in the State Ballroom (SCE 110). Oral presentation session A runs from 11:15 a.m. – 12:15 p.m., and session B runs from 1:45 – 2:45 p.m.

Musical performances and film displays are in the Speaker’s Auditorium (SCE 120).
NOTE: Posters and artistic displays are in the State Ballroom (SCE 110). Poster session A runs from 10 – 11 a.m., and poster session B runs from 12:30 – 1:30 p.m. Artistic displays run from 10 – 11 a.m.

Oral presentations are in SCE suites 201, 203, 207, 208, 216, 217 and 218 and in the State Ballroom (SCE 110). Oral presentation session A runs from 11:15 a.m. – 12:15 p.m., and session B runs from 1:45 – 2:45 p.m.

Musical performances and film displays are in the Speaker’s Auditorium (SCE 120).
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