## Guide to 2019 Undergraduate Research and Arts Exposition

**Wednesday May 29, 2019**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>10:00-11:30 AM</td>
<td><strong>Northwestern University Poster Session One</strong></td>
<td>Louis Room – Norris second floor</td>
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<tr>
<td>11:00-12:30 PM</td>
<td><strong>Northwestern University Oral Presentation Session One</strong></td>
<td>Lake Room, Arch Room, Rock Room, Armadillo Room – Norris second floor</td>
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<td>1:00-2:30 PM</td>
<td><strong>Northwestern University Oral Presentation Session Two</strong></td>
<td>Lake Room, Arch Room, Rock Room, Armadillo Room – Norris second floor</td>
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<td>2:30-4:00 PM</td>
<td><strong>Northwestern University Poster Session Two</strong></td>
<td>Louis Room – Norris second floor</td>
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<td>8:00-9:30 PM</td>
<td><strong>Creative Arts Festival</strong></td>
<td>Black Box Theater 101 – Wirtz Center for the Performing Arts</td>
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<td>9:30-10:30 PM</td>
<td><strong>Post-Show Reception</strong></td>
<td>Lobby (first floor) – Wirtz Center for the Performing Arts</td>
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Poster Session One
10:00-11:30, Louis Room (205)

Humanities, Social Sciences, & Journalism

2. Allyson Snyder, “Preschoolers’ Creativity During STEM Play”
3. Annie Lee, “Interlocutor Identity and Proactive Control During Language Production”
4. Augusta Saraiva and Keyla Carvalho, “Spanish Speakers’ Perceptions and Performance When Learning Portuguese”
8. Che Justice, “Effects of Verb-Definite Description Pairings on Acceptability in Frequency Adjective and Weak Definite Constructions”
10. Grishma Reddy, “Perceptual Illusion Performance in Non-Clinical Psychosis”
11. Hassan Al-Jahni, “Qatar’s Museum Landscape: A 12-Month Launch Campaign”
12. Jamilah Silver, “Examining Early Childhood Profiles that Reliably Differentiate Young Children at Highest Risk for Depression”
13. Jason Levin, “Cardiometabolic Risk as a Mediator Between Positive Affect and Memory”
15. Jennifer Martinez, “Examining the Downstream Effects of Sense of Belonging on Black Medical Students’ Psychological Well-Being”
17. Keldon Lin, “Controversial Topics Increase Skepticism of Data Visualizations”
18. Kimberly Rowghani, “Facial Expressivity in Non-Clinical Psychosis”
19. Mia Weed, “Gender Norm Consistency and Women's STEM Engagement”
20. Monica Hsu, “Under Pressure: College Women in Sports”
22. Prianka Murthy, “Racial Differences in Narrative Meaning-Making Based on Hardiness”
23. Ruthie Charendoff, “The Sexual Health of Modern Orthodox Jewish Women”
24. Sarah Neubert, “Understanding the Experiences and Triggers of Binge Eating and Obesity to Inform the Design of a Mobile Intervention”
25. Seongsik Kim, “Developing Measures of Human Autonomy in Relation to Assistive Agents”
33. CJ Patel, “The Role of Dop in Hedgehog Signaling in Drosophila melanogaster”
34. Diana Velazquez, “Comparing Aliphatic and Aromatic Content as a Function of Soil Depth across the Critical Zone Observatories”
35. Elizabeth Schauer, “Investigating soluble split-TEV protease to create new tools for synthetic protein circuits”
37. Helena Haddad, “Assessment of pancreatic islet PEGylation for mitigating coagulation and complement activation upon transplantation”
40. Joshua Saltzberg, “Engineering a Light-Responsive DNA Polymerase for Data Encoding”
41. Karol Bisaga, “Identifying the mechanisms of genetic interactions that impact C. elegans bleomycin response”
42. Katherine Su, “Chemical vapor deposition of large-area uniform monolayer molybdenum disulfide on soda-lime glass”
43. Katherine Haile, “Unusual coastal mangroves decoupled from marine tidal forcing: Yucatan Peninsula, Mexico”
44. Kelsey Fields, “Influence of Aging and Autoclave Sterilization on Mechanics of Silicone-Elastomers for Biomedical Wearable Devices”
45. Mari Brady, “The Role of the Super Elongation Complex in Epidermal Progenitor Maintenance”
47. Olivia Pritchard, “Catalytic ring-closing reactions of gold compounds containing bis(phosphino)ferrocene ligands”
48. Rachel So, “Soil and Sediment Carbonate Quantification by Diffuse Reflectance Infrared Fourier Transform Spectroscopy (DRIFTS)”
49. Regina Fricton, “ECM Proteins of Cortical and Medullary Ovarian Stromal Cells”
50. Robert Belson, “Examining Inflight Wi-Fi Performance”
51. Samuel Kim, “Effect of Colloidal Particles on a Drop”
54. Sophia Jenz and Kasia Przybyl, “Prior Stress and Fear Conditioning Intensity Interact to Generate Sex-, and Strain-Specific Enhanced or Attenuated Fear Memory”
55. Ulyana Kurylo, “Computational Model of Gaze”
57. **Wendy Luo**, “Circadian Rhythm Disruption in Maternal Behavior Concomitant with Decreased Expression of Vasopressin Signaling and Litter Survival in a Genetic Rat Model of Depression”

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**Oral Presentation Session One**

11:00-12:30

**Cognitive Insights and Social Impacts: Developments in Mental Health**

Lake Room (203)

**Moderator: Renee Engeln,** Psychology Department

- **Hollyn Cetrone,** “Participating in Agriculture and Nutrition Workshops Decreases Depression among Female Farmers in Singida, Tanzania”
- **Amelia Emery,** “White Fragility and Lay Theories of Racism”
- **Irina Huang,** “I’m So OCD: Obsessive-Compulsive Disorder as a ‘Model Minority’ of Mental Illness”
- **Rachel Johnstone,** “Prevalence and Etiology of Depression in U.S. Symphonic Orchestra Musicians”
- **Anne Zola,** “Brains Over Beauty: A Conceptual Replication of the Effect of Objectification on Women’s Cognitive Performance”

**Innovations in Science and Engineering**

Arch Room (206)

**Moderator: Anis Contractor,** Physiology Department

- **Claire Hilburger,** “Controlling Secretion from Vesicles through Remote Control of Membrane Protein Insertion”
- **Alexandra Johnson and Emily Patnaude,** “Fabrication of Soft, 3D Microfluidic Coolers for Peripheral Nerve Blocking”
- **Sarah McDougald,** “Applying Statistical Learning to Personality Psychology: BISCUIT and Other Methods”
- **Christina Shehata,** “Applying a Novel Bioinformatic Method to Study Plant Evolution”
- **Carson Wilmouth,** “Characterization and Correction of Sensory and Social Processing Deficits in a Whisker-Dependent Behavioral Task in a Mouse Model of Fragile X Syndrome”

**Combatting Injustice**

Rock Room (207)

**Moderator: Ji-Yeon Yuh,** History and Asian American Studies Departments
Agneska Bloch, “Combatting Epistemic Injustice through (Epistemic) Affirmative Action”
Alana Farkas, “Rape Culture and Institutional Response: Perspectives from Men in Greek Life”
Katherine Lo, “Orientalism in Mexican Imaginaries of Indigeneity”
Samantha Oberman, “Evaluating Interactive Social Justice Education: An Analysis of the Relationship between Responsive Fiction on Social Empathy”
Brittany Owens, “Examining Cross-Racial Linked Fate and Immigration Reform: Evidence from the 109th and 111th Congresses”

The Influence and Impact of Art
Armadillo Room (208)

Moderator: James Hodge, English Department

Yiran Chi, “‘Now You Have No Gender’: CGI Feet, China’s Digital Working Class, and a New Bodily Discourse in Li Shuang’s T”
Meghan Considine, “Demythologizing Art and Artist: The Revolutionary Pedagogy of the Chicago Mural Movement”
Alessandra El Chanti, “Lebanon's Politics, Economy, and Art - Revive The Lira's Glory”
Zoe Morfas, “Techno from Production to Performance”

Oral Presentation Session Two
1:00-2:30

Government of the People?
Lake Room (203)

Moderator: Jennifer Nash, African American Studies and Gender & Sexuality Studies Departments

Omer Alaoui, “Marriage in Qatar: An Intimate Choice or a Sociopolitical Duty?”
Claire Bugos, “Creating a Wilderness Park: How the Sierra Club Saved and Shaped Kings Canyon National Park”
Sara Saltzer, “The Year of the (Democratic) Woman?: Partisan Voter Responses to Female Candidates”
Advancements in Science and Engineering
Arch Room (206)

**Moderator: Tina Grieco-Calub**, Communications Sciences and Disorders Department

- **Kelsey-Ann Leslie**, “Birefringence of Polymer Gels Under Stress”
- **Tyus Loman**, “Investigating the Effect of Bilingualism on Auditory Selective Attention”
- **Madeleine Lucas**, “Improving Seismic Hazard Forecasts in California and Surroundings Using Historical Documentation of the 1918 San Jacinto Earthquake”
- **Henry Raeder**, “Redundant Functions of PduA and PduJ in Bacterial Microcompartment Formation”
- **Yufan Yang**, “Rational Design of Nanocarrier Morphology and Surface Charge for Targeted Cellular Delivery”

Processing Information/Processing Experience
Rock Room (207)

**Moderator: Kelly Wisecup**, English Department and the Center for Native American and Indigenous Research

- **Courtney Chatterton**, “‘Music Was Life!’: An Examination of Music and Memory in the Holocaust”
- **June Choe**, “Social Information in Sentence Processing”
- **Sarah Dinegar**, “Type 2 Diabetes Care in Germany and the U.S. Compared”
- **Erin Leary**, “(Re)imagining the Upper Mississippi River Valley: From the Colonial Roots of Climate Change to Contemporary Indigenous Artistic Interventions”
- **William Pahutski**, “294,094 Minutes, or Seasons of (TV) Love: Using Qualitative Characteristics to Create Linear Models, Predicting Television Show Longevity”

How Do We Know Ourselves?
Armadillo Room (208)

**Moderator: Wendi Gardner**, Psychology Department

- **Sophie Chen**, “Black and White: Exploring African American disillusionment with the USSR from 1932-1939”
- **Amanda Davis**, “Challenging Traditional Dating Scripts: Female Initiator Requirements in Dating Apps”
- **Nicholas Liou**, “Looking Homeward: The Troubled Nostalgia of Chiang Kai-shek Memorial Hall”
- **Ella Lombard**, “One Person, Many Groups: Collective coherence in LGBTQ+ individuals”
- **Jun You**, “The Prospect of Moral Artificial Agents”
Poster Session Two
2:30-4:00, Louis Room (205)

Humanities, Social Sciences, & Journalism

58. **Alara Ozsan**, “Exploring the Psychosis Continuum: Reward Processing in Non-Clinical Psychosis”
59. **Amanda Bernett**, “Self-Management Education to Reduce Frailty in Older Adults”
60. **Ankita Ajith**, “Project Thea: Morocco, an examination of female entrepreneurship”
61. **Annamarie Jedziniak**, “The Effects of Photography on Facial Reconstructive Plastic Surgery Between the 19th and 20th Century”
62. **Christina Foo**, “‘There’s not many people who are willing to stand up these days’: Racial Counternarratives in Middle Childhood”
63. **Christine Hwang and Shari Gordon**, “The Role of Resistance: Black Adolescent Girls’ Reports and Responses to Discrimination and links to Mental Health”
64. **Courtney Skula**, “Mansplaining and Classroom Discourse: Interruptions and STEM Learning”
65. **Dayanara Padilla**, “‘There’s Racist People Out There, Like Donald Trump’: Children’s Spontaneous Reflections on Current Politics”
66. **Eliza Beth**, “Challenging the Objectives of Sex Education: Themes of Pleasure and Desire in Comprehensive Sex Education Curricula”
67. **Ennely Medina**, “Preserving Best Interests: Unaccompanied Minors in Detention”
68. **Hannah Yi**, “Too distracted to listen? Investigating how young and older adults allocate attention to understand speech while multitasking”
69. **Imani Minor**, “‘You’re pretty for a dark skin’: Rejecting and Endorsing Colorism in an All-Black, All-Girls High School”
70. **Jessica Collins**, “Constructing Successful Citizens: The EU, Erasmus+, and the Reproduction of Class”
71. **Julia Shenkman**, “Redefining the Borders of Medical Tourism: Navigating Healthcare in an Evolving Local Knowledge System”
73. **Katia Valdez**, “Gesture Performance in a Sample of Clinical High-Risk Individuals”
74. **Kristen VanTine**, “The Calculative Mindset and the Propensity to Dehumanize Others”
75. **Laura Zajac**, “Learning from Whom and from What? How Performance Feedback Affects the Diffusion of New Practices”
76. **Lydia Wuorinen**, “Understandability and Title IX Compliance at the Undergraduate Level”
77. **Maddie Hong**, “Haptic Memories and Visualities in Film: How Films Touch and Feel”
78. **Mary Parker**, “‘It’s Not Just, ‘Hey Cookie, Let’s Go Out.’ It’s More Like Being Shoved Against the Wall’: A Qualitative Exploration of Mechanisms of Sex Segregation in Fine-Dining Restaurants in Chicago”
79. **Nicole Rinne**, “Examining Conversation Breakdowns in Parkinson’s Disease Versus Alzheimer’s Dementia”
80. **Pallas Gutierrez**, “In the World We Manifested: Homonormativity, Gender Roles, and Sexism Within Queer Fan Fiction”
82. **Ryan Millman**, “Exploring the Use of Comparisons During Families’ Conversations at a Children’s Museum STEM Exhibit”
83. **Samantha Buresch**, “The First-Generation Student Transition Experience into the Working World”
84. **Talia Waxman**, “Chicago Teen Girls Participatory Photovoice”
85. **Adam Watts**, “Can Machine Learning Read CEO’s Better Than a Human: An NLP Analysis of Quarterly Earnings Calls and Stock Returns?”

**Natural Sciences & Engineering**

86. **Avery Wallace**, “Coral Bleaching in the Florida Keys: The Impact of Accumulated Heating Stress on Bleaching and Mortality in Corals”  
87. **Catherine Walker**, “Increasing Stability of Iron Nanolayers for Use as Energy Transducers”  
88. **Charles Costakis**, “Inverse Mapping in Resistance Tomography”  
89. **Charles Stark**, “Small Molecule Synergy to Improve Protein Folding in Neurodegenerative Diseases”  
90. **Dani Lewites**, “The Effect of Intramolecular Hydrogen Bonding on the Solution-Phase Conformation of Tertiary Amines”  
91. **Div Dasani**, “Image Colorization with Convolutional Neural Networks”  
92. **Erica Littman**, “Efflux Pumps Contributing to Antibiotic Resistance are Conserved Across Pseudomonas Species”  
93. **Faraz Khan**, “Super-resolution SERS—Investigation of Raman Image Dependence On Laser Wavelength”  
94. **Fiona Worsfold**, “Relating the bleaching response of coral species to that of its assemblages”  
95. **Gina Johnson**, “Concussed football players display enhanced sound processing compared to healthy, non-athlete peers”  
97. **Isabella Borgula**, “Effect of zinc on mouse spermatozoa function”  
98. **Juan Sanabria**, “Injectable Biodegradable Elastomer to Aid in Healing of Bone Fractures”  
99. **Katherine Duncker**, “Cell-free Glycoprotein Synthesis and Screening Platform”  
100. **Larry Wang**, “Agent Orange Effects on Sensorimotor Function of Transtibial Prosthesis Users”  
101. **Madeline Corrigan and Sophia Wong**, “Determining a model for harbor seal whisker geometry from extensive data analysis”  
102. **Michael Montoya and Ryne Montoya**, “Anthropogenic Effect on Diversity in Cedar Glade Habitat”  
103. **Neha Pashankar**, “Meta-analysis and Pathway Identification of Genes Associated with Anxiety Disorders”  
104. **Nell Borys**, “Structural Elucidation of Regulatory Domains Found in ABC Transporters”  
105. **Orazio Alaimo**, “EMG signal processing of muscle activations during transtibial prosthetic gait”  
106. **Peter Puleo**, “A ~14,500-year Paleoenvironmental and Paleoclimate Record from Sediments of Geneva Lake, Wisconsin”  
Creative Arts Festival

8:00-9:30 Wirtz Black Box 101

Emcee – Morgan Buckley

Visual Art Showcase

Kira Nutter – Spacing Out (painting)
Valerie Slowing – Behind My Smile (painting)
Nur Munawarah – What I Learned in School (photography)
Deniz Turkoglu – By the Water (video/sound installation)

Performances (in scheduled order of appearance)

Gibran Wirjawan – Gibs: Live (Music)
Nadalyn Bangura – Rainy Season (Poetry)
Sana Ansari – Batch 10 (Documentary Film)
Lauren Loesberg – Janek to the River (Narrative Film)
Simran Bal – a nomadic woman’s journey back home (Staged Reading)
Jake Curtis – Adult Foleys (Web Series)
Maha Essid – 426 (Narrative Film)
Rae Covey – Focus On Your Hands (Staged Reading)
Sloane Scott – Ode to Times Beach, MO: 1925-1985 (Poetry)
Cesar Almeida – The Drummer’s Spotlight (Music)

Stage Manager – Olivia Zapater-Charrette