

2022

Undergraduate Scholars Showcase

April 28, 2022 • 1:00 - 4:00 p.m. • Morris University Center

Featuring:

Outstanding Senior Assignments

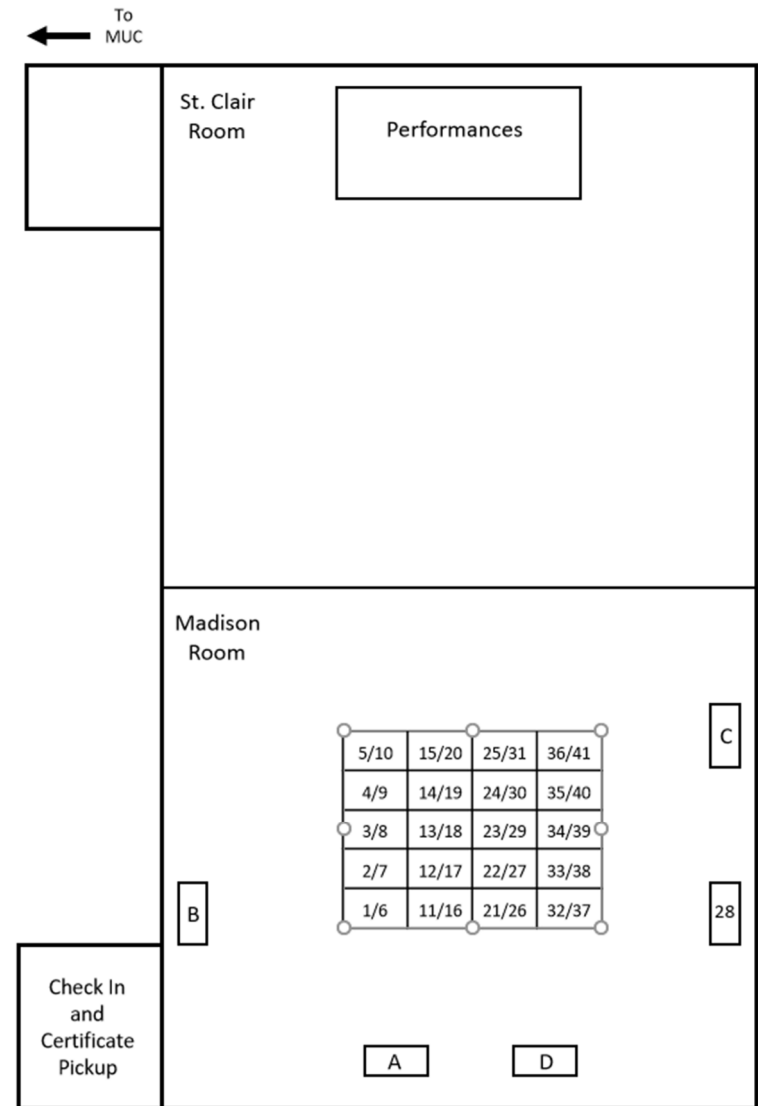
URCA Assistants

URCA Associates



Undergraduate Scholars Showcase

Poster Presentation Assignments • Meridian Ballroom



Oral and Multimedia
Presentations will be held in
the Missouri Room, MUC 2nd
Floor

Schedule of Events

April 28, 2022 • Morris University Center (MUC)

Missouri Room (MUC Second Floor) - 1:00 - 4:00 p.m.


Oral and Multimedia Presentations

Madison Room (MUC First Floor) - 2:00 - 4:00 p.m.

Poster Presentations and Displays
Demonstrations and Exhibits
Certificate Pickups (check-in desk)

St. Clair Room (MUC First Floor) - 2:00 - 4:00 p.m.

Performances

The logo for SIUe, with 'SIU' in black and 'e' in red.

Oral and Multimedia Presentations

Morris University Center, Missouri Room 1:00 - 4:00 p.m.

1:00 - 1:20 p.m. **Michael Hubach, *Anthropology***
“Most of the Board Stands for White Supremacy: A Journey Through Queer Agency, Activism, Blackness, and Queer Social Structures in St. Louis and Its Metro Area”

1:20 - 1:40 p.m. **Samantha Nosek, *Applied Health***
“Call for Self Compassion: Vicarious Trauma in Victims’ Advocates”

1:40 - 2:00 p.m. **Hayley Goebel, *History***
“Native American Portrayals in the Old West”

2:00 - 2:20 p.m. **Bridget Patrick, *Applied Health***
“Mater-Vita Initiative Presents ‘Moms Matter’ - Reducing the Maternal Mortality Rate in African-American Women”

2:20 - 2:40 p.m. **Ashley Brown, *International Studies***
“Crisis Communication Practices of International Organizations”

2:40 - 3:00 p.m. **Cristina Sanchez Amasifuen, *Anthropology***
“Environmental Indigenous Knowledge: Exploring the Culture of Sustainable Development of the Shipibo-Konibo Amazonian People and its Challenges”

3:00 - 3:20 p.m. **Eric Neeley, *Philosophy***
“The Scope of Nietzsche’s Moral Critique: What is Nietzsche Attacking?”

3:20 - 3:40 p.m. **Peter Dimitrov, *International Studies***
“The Syrian Civil War”

3:40 - 4:00 p.m. **Paige Davis, *Foreign Languages and Literature***
“Una mirada más profunda a la vida de El Buscón (A deeper look to the life of El Buscón)”

Virtual* **Azad Gultekin, Ahmet Zahit Aslan, Mustafa Kaan Ozgobek, Kerem Bursalioglu, Abdulsamet Canoglu, and Ruwa Abdeljawad, *Industrial Engineering***
“Assistant Glasses for Blind People”

**Virtual presentations can be viewed by scanning the QR code on the back cover.*

Demonstrations and Exhibits*

Morris University Center, Madison Room 2:00 - 4:00 p.m.

- A. **Sefa Kocak, Murat Can Kuvelet, Saadet Kilic, Bugen Naz Kocoglu, Elif Asena Kapelman, and Esma Yagmur Evlicoglu, *Industrial Engineering***
“Standin’ Desk Riser”
- B. **Jesse Bortz, *Music***
“Senior Recital, Trombone”
- C. **Carlos Dulcamara, *Mass Communications***
“Carlos Dulcamara: A portrait of a cinematographer, filmmaker, and storyteller”
- D. **Hannah Puckett, *Social Work*^{URCA}**
“FSI Modules”

Performances

Morris University Center, St. Clair Room 2:00 PM to 4:00 PM

- 2:30 p.m. **Alyssa Watson, *Theater and Dance***
“ebb & flow”
- 3:15 p.m. **George Mitchell and Margaret Sommerhof, *Theater and Dance***
“Acting on Camera” (pre-recorded presentation)

*URCA superscript denotes URCA program projects. Those without superscripts are Outstanding Senior Assignments.

Poster Presentations*

Morris University Center, Madison Room 2:00 - 4:00 p.m.

1. **Hayley Goebel, *Anthropology*^{URCA}**
“Wedding Dresses and Women’s Body Image, 1890-1955: An Exhibit at the St. Clair County Historical Society”
2. **Derek Burns, *Anthropology*^{URCA}**
“Social Gospel’s Social Engineering: Missionaries’ Allies and Adversaries in West China, 1910-1930”
3. **Sai Medavaka, Paige Niepoetter, Sheyenne Daughrity, Elizabeth Hackmann, Saruveish Mogan, and Oskar Lenz, *Applied Health*^{URCA}**
“Effects of Endocannabinoids on Physical and Mental Fatigue in the High-Fat Diet-Induced Obese Rats Combined with Intermittent Fasting”
4. **Saruveish Mogan, Paige Niepoetter, Sai Medavaka, Elizabeth Hackmann, Sheyenne Daughrity, and Oskar Lenz, *Applied Health*^{URCA}**
“Comparison of Intermittent Fasting and Voluntary Wheel Running on Mental and Physical Fatigue in Obese and Non-Obese Rats”
5. **Kaleena Davis, *Biological Sciences*^{URCA}**
“Investigating the evolutionary dynamics of symbiotic bacteria Paraburkholderia and bacteriophage Bonzo8 in amoeba model host system”
6. **My Tran, *Biological Sciences*^{URCA}**
“Assessing the evolutionary and contemporary relevance of bacteriophages for Paraburkholderia symbionts of soil amoeba”
7. **Brooke Prater, *Biological Sciences*^{URCA}**
“Seed and biomass production of *Ocimum basilicum* (Basil) grown in horizontal and vertical garden systems and the integration of the pollinator attractor *Aster novae-angliae* (Pink Chiffon Aster)”

*URCA superscript denotes URCA program projects. Those without superscripts are Outstanding Senior Assignments.

Poster Presentations (cont.)

Morris University Center, Madison Room 2:00 - 4:00 p.m.

8. **Noah Drewes and Hendrick Hamilton, *Biological Sciences***^{URCA}
“Potential rescue of the GGPPS11 mutant phenotype using meristem-specific promoters”
9. **Natalie Sutton, *Biological Sciences***^{URCA}
“Bacteria-produced nitric oxide as a modulator of locust swarming behavior”
10. **Patrick Nilges, *Biological Sciences***
“Smoke Water Concentration Effect on the Germination of *Sorghastrum nutans*, a Native Grass”
11. **Kaitlin Goodbrake, *Biological Sciences***^{URCA}
“Insecticide tolerance in termite symbionts”
12. **Michelle Lynch, *Biological Sciences***^{URCA}
“Investigating the function of novel planarian genes”
13. **Ireland Smith, *Biological Sciences***
“Investigating the Effects of Rab11 on Synaptic Proteins FasII and APPL and in Kismet Mutants”
14. **Kendra Selby and Stephanie Shan, *Chemistry***^{URCA}
“The effect of environmentally relevant concentrations of atorvastatin, lovastatin, and simvastatin on *L. terrestris*”
15. **Ethan Hunsperger, *Chemistry***^{URCA}
“Development of Reaction Monitoring Methods by HPLC for Asymmetric Multicomponent Coupling Reactions”
16. **Abbigayle Hendrick, *Chemistry***^{URCA}
“Chemical Analysis of Indigo Dye Techniques in Traditional Cultural Garments”
17. **Michael Cushing, *Criminal Justice Studies***
“St. Louis County Police Department Internship”

Poster Presentations (cont.)

Morris University Center, Madison Room 2:00 - 4:00 p.m.

18. **Morgan Nolan, *Criminal Justice Studies***
“Alcohol, Tobacco and Firearms (ATF) Federal Internship”
19. **Lindsay Starr, *Dental Medicine***^{URCA}
“Development of a standard protocol to measure alveolar bone loss from mouse mandibles using resources at SIU School of Dental Medicine”
20. **Lucia Thompson, *Dental Medicine***^{URCA}
“Development of a noninvasive technique to measure fecal thyroid hormones and corticosterone in mice”
21. **Jacob Beebe, *Economics and Finance***^{URCA}
“MD vs. Non-MD Hospital Leadership Regarding Hospital Bed Capacity during the COVID Pandemic”
22. **Alyssa LoTempio, *Economics and Finance***^{URCA}
“Labor force participation and COVID”
23. **Hope Krisko, *English Language and Literature***^{URCA}
“Analysis and Archive of Survey Materials Gathered by Dr. Francis Odemerho for the Schaefer Archive”
24. **Emma MacNeill, *Environmental Sciences***^{URCA}
“Nutrient Pollution and Water Quality: Understanding the Correlation between Agricultural Practices and Surface Water Pollution in Otter Lake”
25. **Joseph Wingbermuehle, *Environmental Sciences***
“Assessing longevity of adult fruit flies exposed to sub-lethal perfluorooctane Sulfonate during the larval stages”
26. **Samantha Gallatin, *Geography and Geographic Information Sciences***
“Carbon monoxide in Tropical and Winter Storms Across the United States: A Comparison of Deaths and Injuries”

Poster Presentations (cont.)

Morris University Center, Madison Room 2:00 - 4:00 p.m.

27. **Katherine Ross, *Integrative Studies***
"What Treatments are Available for Women who have Suffered Intimate Partner Violence? A Psychological and Art Perspective"
28. **Devese Ursery, *Mass Communications***
"Devese Ursery: Past. Present. Future."
29. **Kevin Wilson, *Mechanical Engineering*^{URCA}**
"Flow Visualization and Pressure Measurement of a Tesla Valve"
30. **Demarco Brownlee, Tina Duong, Caitlyn Heller, and Lindsey James, *Nursing***
"Ethnic Hair Care in the Inpatient Setting"
31. **Jillian Freeman, *Physics*^{URCA}**
"Using the X-Scan Pump-Probe Technique to Determine the Persistent Induced Change in the Index of Refraction of Europium Doped Tellurite Glasses"
32. **Cameron Appelt, Madison Kennedy, Parker Kent, Mackenzie Richards, and McKenna Seling, *Psychology*^{URCA}**
"College Students' Health over the Course of the COVID-19 Pandemic"
33. **Bailey Isom, Carson Woodfin, James Woodcock, and Qingxin Zhang, *Psychology*^{URCA}**
"P Factor and Help Seeking Behavior"
34. **Morgan Bell, Amanda Dinardo, Samantha Mattan, and Meagan Radcliff, *Psychology***
"The Role of Gender on the Relationship Between Humor Styles and Personality Traits"

Poster Presentations (cont.)

Morris University Center, Madison Room 2:00 - 4:00 p.m.

35. **Mikayla Blankenship, Samuel Baker, and Meg Wyatt, *Psychology*^{URCA}**
"Experimental Evaluation of Implicit Bias Education in the Classroom"
36. **Alexandra Vogen, McKenna Anderson, Tyler Balfour, Gabrielle Lewis, Rianna Roush, Angel White, Dasmin Witted, Jayla Williams, *Psychology*^{URCA}**
"Individual Differences in the Acquisition and Reacquisition of Rubik's Cube Skill"
37. **Ashlyn Dewitt, Madison Kennedy, Moll Malgorzata, and Hillary Mann, *Psychology***
"Humor Styles will Moderate the Relationship Between Social Media Use and Well-Being During the Pandemic"
38. **Brianna Dennis, *Social Work***
"Evaluating Practicum Site Accessibility"
39. **Amanda Morgan and Jasmine Cates, *Sociology*^{URCA}**
"Outside the Shell: Roxana High School's Culture of Exclusion"
40. **Ariel Combs, *Sociology*^{URCA}**
"Bringing Awareness of East St. Louis Center Programs to the Edwardsville Campus: An Anti-Racism Task Force Initiative"
41. **Timothy Baur and Blerta Beluli, *Sociology*^{URCA}**
"Community Engagement as Reparations: The Work of Healing and Building Community-University Relationships"



Virtual Poster Presentations

Undergraduate Showcase Website*

V. Sheyenne Daugherty, *Applied Health* ^{URCA}
“Perceptions of Students toward Flipped Learning in the STEM Courses at a Two-Year and a Four-Year Institution”

V. Brittany Kehoe, *Art and Design* ^{URCA}
“Loss of Control”

V. Hannah Bradley, *Biological Sciences* ^{URCA}
“Nationwide Analysis of the Impact of Behavioral and Socioeconomic Factors on COVID-19 Case and Death Rates”

V. Heather Henderson, *Nursing*
“Increasing Position Changes to Decrease Labor Dystocias”

V. Maddison Rothrock, *Nursing*
“Reducing Nurse Turnover with Use of Resource Nurse”

V. Sabrina Guellil, *Public Administration and Policy Analysis* ^{URCA}
“Instabilities Hinder Unhoused Homeless Youth Prosperity”

V. Dakota Tostado, *Political Science*
“Clashing Perceptions of Conflict”

V. Corbin Johannpeter, *Sociology* ^{URCA}
“F*** a Vaccine Passport, Let's go BMI Passports:’ Vaccine Resistance and Obesity”

*To view the virtual poster presentations, please scan the QR code on the back cover, or visit <https://www.siue.edu/provost/assessment/evidence-of-student-learning/undergraduate-scholars-showcase.shtml>

Thank you for joining us for the 2022 Undergraduate Scholars Showcase! This exciting event allows our undergraduate students to present their hard work and research to the campus community and beyond.



Please scan the QR code above to be directed to the Virtual Showcase site.