

*18<sup>th</sup> Annual*  
 Undergraduate  
 Research  
 Conference  
Southwest Minnesota State University

# PROGRAM

**Wednesday,**  
**Nov. 29, 2023**  
**Conference Center Upper Level**  
**8:30 a.m. – 5:00 p.m.**



# 18th Annual Undergraduate Research Conference at Southwest Minnesota State University

## WELCOME AND KEYNOTE

Zoom Link: <https://minnstate.zoom.us/j/93125456437>

Password: URC2023

- 8:30.....Dr. Kumara Jayasuriya, SMSU President, Opening Remarks
- 8:40.....Michael Beedle '90, M.S. Public Health, Section Supervisor,  
United States Environmental Protection Agency, Federal  
Managers Association Chapter 375 President  
Keynote Address: *Be Open to Opportunities*

## ORAL SESSION

Upper Level SMSU Conference Center & via Zoom

Zoom Link: <https://minnstate.zoom.us/j/93125456437>

Password: URC2023

*Biology, English, Environmental Science, History, Theatre*

- 9:45.....Madi Foutz, Environmental Science, The Effects of the Marshall  
Wildfire on Soil Properties
- 10:00.....Claudia Lensing, Biology, Seasonal Changes in Bat Calls in the  
SMSU Wildlife Area
- 10:15.....Ansen Dulas, Environmental Science, Water Quality  
Comparison Between Rural and Suburban Minnesota Lake
- 10:30.....Jackson Vierstraete, Biology, Examining *Anolis carolinensis*  
territorial behaviors in response to intrasexual competition
- 10:45.....BREAK
- 11:00.....Carter Schmitz, History, WWII Propaganda In the U.S: Film's  
impact on the spread of propaganda 1940-1945
- 11:15.....Nathan Lear, History, The Internment of Japanese Americans  
During World War II
- 11:30.....Isaiah Krumbach, History, Food Rationing in the U.S during the  
Second World War
- 11:45.....Chad Laurila, History, Exploitation of Immigrant Iron Miners of  
Northern Minnesota
- 12:00.....LUNCH BREAK
- 12:30.....Olivia Chester, English, Northern Wings, Senior Portfolio

- 12:45..... Ashley Malecha, English, Seeing Life Through a Different Lens: A Senior Portfolio Reading
- 1:00..... Sebastian Flores, English, An Analysis of 1984
- 1:15..... Abigail Agra, English, Misalignment: The Awakening and After Leaving Mr. Mackenzie
- 1:30..... Molly Green, Theatre, Pop Art Inspired Makeup Application
- 1:45..... Richard Chong and Savanna Busch, Biology, *Anolis carolinensis* and Response to Multimodal Predatory Signals
- 2:00..... Michele Stai, Dylan DeSmet, and Terry Van Note, Biology, The Effects of Moisture Regime on *Brassica rapa* Growth and Reproduction in Terraria
- 2:15..... Ansen Dulas, Joren Palmer, and Rickey Jones, Biology, The Effects of Fertilizer Concentrations on Switchgrass (*Panicum virgatum*)
- 2:30..... BREAK
- 2:45..... Laura Schmig and Rebeca Temotio, Biology, *Anolis carolinensis* Behavioral Responses and Communication in Intraspecific Interactions
- 3:00..... Josephine Lentz, Sarah McDonald, Madi Foutz, and Moshood Agboola, Biology, Effects of Soil Abiotic Factors on Native Versus Non-Native Plant Species
- 3:15..... Terry Van Note, Biology, The Effects of Simulated Hissing on the Behavior Madagascar Hissing Cockroaches
- 3:30..... Austin Dean, History, Robert Owen
- 3:45..... Gage Peterson, History, New History of Education in Southwest Minnesota; A Comparison of Teaching Styles from Early 2000's to Present Day
- 4:00..... Sam Burke, History, Anti-Capitalist Themes in Pro-Slavery Thought in The Antebellum South
- 4:15..... Cassie Powelson, History, Women in Education
- 4:30..... Bryn Mongeau, Theatre, Design and Construction of a Light Box

## VIRTUAL SESSION 1

VIA ZOOM 10:30 - 11:45AM

Zoom Link: <https://minnstate.zoom.us/j/97208867707>

Password: URC2023

Room Moderator: Mostafa Hegazy

*History, Psychology*

- 10:30..... Michelle Diaz, History, History, Cultural Wars and the American Classroom
- 10:45..... Emily Waldorf, Jim Callies, and Olivia Bennot, Psychology  
Assessing Vividness of Mental Imagery
- 11:00..... Gregg Blanchette, History, French-Canadian Influential Immigration to Kankakee County, IL, and the Driving Force Behind it
- 11:15..... Julia Sullivan, History, The Treaty of Mendota and Traverse des Sioux 1851
- 11:30..... Sydney Eich, History, The 1883 Rochester Tornadoes

## VIRTUAL SESSION 2

VIA ZOOM 2:00 - 3:15PM

Zoom Link: <https://minnstate.zoom.us/j/98616918384>

Password: URC2023

Room Moderator: Charlotte Wahle

Accounting, Computer Science, History

- 2:00..... Renata Caponi, History, Paganistan and the Police
- 2:15..... Lacey Popowski and Shantel Quaintance, Accounting,  
The Impact Of Covid-19 On The Ability For Accountants To Work Remotely
- 2:30..... Brandon Ballard, History, Gettysburg Perception
- 2:45..... Dennis Kienetz, Accounting, Cryptocurrency and its Effect on Accounting
- 3:00..... Eyuel Dagne, Computer Science, Access Control Using Radio Frequency Identification (RFID) Sensor

## STUDENT RECITALS

1:00 - 1:50PM

*Fine Arts Theatre*

Samantha Moeller, Music, *Allegro in A minor, D 947 Lebensstürme*

Margeaux Belanger, Music, *Pocket-Size Sonata No. 2*

Jamie Snyder, Music, *Fleur Desséchée*

Luke Hammerschmidt, Music, *Auf dem Hügel sitz ich Spähend*

Alec Ashby, Music, *First Sonata for Flute and Piano*

## POSTER PRESENTATION SESSION

Lower Level of the SMSU Conference Center

Posters displayed 8:30 am - 4:30 pm

*Accounting, Agribusiness Management, Biology, Computer Science, Exercise Science, History, Hospitality Management, Music, Philosophy, Political Science, Psychology, Sociology, Theatre*

- 1.....Julie Chesley, Accounting, Consolidation Worksheet, 9:45-11:15
- 2.....Claire Eckstein, Accounting, The Importance of Good Bookkeeping Practices, 9:45-11:15
- 3.....Lily Htoo and Maija Geier, Accounting, Why Career in Accounting, 9:45-11:15
- 4.....Brady Brosz, Accounting, How Management uses Cost Accounting to Make Decisions, 10:30-12:00
- 5.....Becca Funk, Accounting, Financial Accounting vs. Managerial Accounting, 10:30-12:00
- 6.....Jessica Jacobson, Accounting, Management's use of Cost Accounting, 10:30-12:00
- 7.....Nicholas Irlbeck, Accounting, Databases in Accounting, 1:00-2:30
- 8.....Abdullahi Omar & Zain Mian, Accounting, Communication Skills in Tax Accounting, 1:00-2:30
- 9.....Macy Joens and Madison Douvier, Agribusiness Management, Education in Afghanistan, 1:00-2:30
- 10.....Moshood Agboola Ojora-Williams, Biology, Effects of Obesity on Skeletal Muscle Contraction, 9:45-11:15

- 11.....Josephine Lentz, Biology, A Look at Plasticity Regeneration after Spinal Cord Injury, 10:30-12:00
- 12.....Claudia Lensing, Biology, Effects of Coral Bleaching on Corallivorous Fish, 1:00-2:30
- 13.....Nijje Nauden, Biology, Does a Pesticide-Parasite Relationship Contribute to Frog Deformities?, 2:30-4:00
- 14.....Jonah Nielsen, Computer Science, Taskmaster: A Scheduling and Notetaking App, 9:45-11:15
- 15.....Bamlak Assaye and Tyler Bliss, Computer Science, Ocean Dominance: Naval Warfare, 9:45-11:15
- 16.....Esrom Tadesse, Abenezer Legesse, and Natnael Bacha Computer Science, Bank Management System, 9:45-11:15
- 17.....Humza Khan, Computer Science ,VioletMIDI: A Portable, Lightweight Music Composition App, 10:30-12:00
- 18.....Mohamed Abdi ,Computer Science, Weather Desktop Application, 10:30-12:00
- 19.....Oyindamola Owolabi and Birkti Ayele, Computer Science, Culinary Coding: Developing A Curated Recipe Website Using HTML, CSS, JavaScript, SQL And PHP, 10:30-12:00
- 20.....Caleb Boyum, Computer Science, Digital Quarto, 1:00-2:30
- 21.....Martin Olsen, Computer Science, Distributed Data Processing over a RISC-V Cluster, 1:00-2:30
- 22.....Hamlet Santana and Cesar Portillo, Computer Science, 2D Game Engine, 1:00-2:30
- 23.....Ali-Muhammad Nathani, Computer Science, Predictive Analytics with Machine Learning, 2:30-4:00
- 24.....Kirubel Kebede, Computer Science, Hospital Website Development, 2:30-4:00
- 25.....Ellie Anselment, Computer Science, Improved Point of Sale System, 2:30-4:00
- 26.....Franklin Roa, Ble Michela N'Guessan, and Frederick Fermin Computer Science CalBuddy- College Time Made Easy, 2:30-4:00
- 27.....Evan Steinhauser, Cameron Peterson, Aiden Engstrom, Martin Kochis, Robin Clark, Culinology, Development of Low- calorie, Nutrient Rich Edamame Snack Chips for Commercialization, 1:00-2:30

- 28.....Davis Moseng and Sammie Kling, Exercise Science,  
Comparison of Five Different Body Fat Percentage Methods in  
College Students, 2:30-4:00
- 29.....Benjamin Engels, History, Lincoln County Seat, 9:45-11:15
- 30 .....Samantha Moeller, Music, “Life’s Storms” – An Examination Of  
One Of Schubert’s Piano Four-Hands Masterworks, 9:45-11:15
- 31.....Margeaux Belanger, Music, The Musical Stylings of Pocket-Size  
Clarinet Sonata No. 2, 9:45-11:15
- 32.....Jamie Snyder, Music, Rising Above Barriers: Women in 19th  
Century Music, 10:30-12:00
- 33.....Luke Hammerschmidt, Music, How Ludwig Van Beethoven  
Created the Modern Song Cycle, 10:30-12:00
- 34.....Alec Ashby, Music, Structural and Stylistic Analysis of the First  
Movement of the First Flute Sonata by Bohuslav Martinu,  
2:30-4:00
- 35 .....James Gully, Philosophy, Investigating the State of Nature,  
9:45-11:15
- 36.....Ashton Ayres, Philosophy, What Should Human Law Do?,  
1:00-2:30
- 37.....Ashton Ayres, Political Science, Communities Without Police:  
The Impact and Result, 9:45-11:15
- 38.....Addy Wolbaum, Political Science, Policy Implications on the  
Increase of Missing & Murdered Indigenous Women in  
Minnesota, 10:30-12:00
- 39.....Moshood Agboola Political Science, Can the “Treat and  
Reduce Obesity Act” cut obesity levels in the United States?,  
1:00-2:30
- 40.....Hunter Smith, Political Science, Economic Impact of Municipal  
Liquor Monopolies on Localities in Southwest Minnesota,  
1:00-2:30
- 41.....Houa She Yang, Political Science, “Solutions for Rural Child  
Care: Building from the Ground Up”, 1:00-2:30
- 42.....Stephen Zimmer, Political Science, The Greater Housing  
Problem of Greater Minnesota, 2:30-4:00
- 43.....Samuel Lund, Political Science, Intellectual Property Versus  
Farmers’ Right to Repair, 2:30-4:00
- 44.....Megan Anspach, Psychology, The Effect of Divided Attention on  
Cognitive Control, 10:30-12:00

- 45.....Abby Boxrud and Aislinn Perkins, Psychology, The Effect of Dynamic Visual Noise on Memory for Concrete vs. Abstract Information, 1:00-2:30
- 46.....Macie Langstraat, Psychology, Social Comparison, Gender, and Personality: Gender Differences in Upward and Downward Social Comparison, 2:30-4:00
- 47.....Haylee Johnson, Jessica Kruk, and Stacey Engelkes, Psychology, Vividness of Visual Imagery and the Frequency of Creating Mental Images, 2:30-4:00
- 48.....Kylie Thelen, Mykal Barker, and Haley Schultz, Sociology, Barriers to Using the Mustang Market, 10:30-12:00
- 49.....Addy Wolbaum, Joe Buelow, and Jordon Peterson, Sociology, Status of Food Security, 1:00-2:30
- 50.....Drew Zander Middendorf, Gary Barnes, and Zander Nav Noordwyk, Sociology, Conclusions and Suggestions for the Mustang Market, 1:00-2:30
- 51.....Brianna Chatterton, Jessica Bohl, and Morgan Warner, Sociology, Awareness and Use of the Mustang Market, 2:30-4:00
- 52.....Brooke Burns, Theatre, The Beginning of Special Effects Makeup, 9:45-11:15
- 53.....Priscilla Muehr, Theatre, The Horrors of Unsafe Makeup, 10:30-12:00
- 54 .....Raquel Matias, Theatre, Scrapes and Bruises, 10:30-12:00
- 55 .....Laura Bradley, Theatre, Contouring the Face, 1:00-2:30

## **CLOSING SESSION & LIBRARY RESEARCH AWARD ANNOUNCEMENT**

Upper Level SMSU Conference Center & Zoom  
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- 4:45.....Closing Remarks and presentation of Library Research Award



For more information contact conference coordinators:

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