



# COLLEGE OF ARTS & SCIENCES

## UNDERGRADUATE SHOWCASE

December 8, 2022

Each semester the College of Arts & Sciences hosts a research and creative activity showcase for undergraduate students to present their work to the campus community.

### PRESENTATIONS & PRESENTERS

#### Session 1 | 9:30 – 10:45 am

##### **Barriers to Receiving Mental Health Care**

**Authors, Majors:**

Emily Bergman, Sociology, Social Work

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

##### **College Aged Women's Reactions to Benevolent and Hostile Sexism**

**Authors, Majors:**

McKenzie Christensen, Psychology

Lilja Jurva, Psychology

Kaija Kinnunen, Psychology and Biology

Alexis Tyryfter, Psychology/Women & Gender Studies

**Course:** PSYC 304

**Faculty Advisor:** Heather Terrell

##### **A Look at the Death Penalty: Moral Justification and American Beliefs about Deterrence**

**Authors, Majors:**

Nicole Halverson, Sociology, Criminal Justice

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

##### **Understanding Human Trafficking in the United States and the Trauma It Leaves Behind**

**Authors, Majors:**

Gabriel Hartje, Criminal Justice and Sociology

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

##### **Perceptions of Hostile and Benevolent Sexism**

**Authors, Majors:**

Htet Hnin, Psychology and Biology

Maria Johnson, Pre-Occupational Therapy

Tristan Miller, Psychology

Linnya Sanders, Psychology

Bergen Stockstad, Psychology

**Course:** PSYC 304

**Faculty Advisor:** Heather Terrell

##### **Sociodemographic Factors and Support for Women in Politics**

**Authors, Majors:**

Grace Jackson, Sociology, Philosophy,

Criminal Justice Studies

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

##### **How Political and Religious Identities Shape Attitudes About Homosexuality**

**Authors, Majors:**

Jayden Juran, Sociology, Criminal Justice

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

##### **The Changing Nature of Church Attendance and Religiosity in the United States**

**Authors, Majors:**

Danielle Korsmo, Sociology, Criminal Justice,

Forensic Science

**Faculty Advisor:** Daphne Pederson

## **Defensive Reactions to Gender Role Threat**

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### **Authors, Majors:**

Anna Lambertz, Psychology/Pre-Medicine  
Noah Bradbury, Psychology/Pre-Medicine  
Alissa Schell, Psychology  
Priscella Trottier, Psychology  
Mikayla Moszer, Psychology

**Course:** PSYC 304

**Faculty Advisor:** Heather Terrell

## **An Investigation into Gender Threat**

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### **Authors, Majors:**

Michaela Quaschnick, Psychology  
Ekaterina Ivanov, Psychology  
Janet Greenauer, Psychology  
Jace Catalan, Psychology/Pre-Medicine

**Course:** PSYC 304

**Faculty Advisor:** Heather Terrell

## **Public Perceptions of Policing: Ethical Behavior, Accountability, and Trust**

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### **Authors, Majors:**

Aiden Robberstad, Sociology, Criminal Justice

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

## **Racial and Ethnic Disparities in Substance Abuse Treatment**

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### **Authors, Majors:**

Allison Robberstad, Sociology

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

## **Session 2 | 11:00 am – 12:15 pm**

## **Mapping Frequently Challenged Books Across Minnesota**

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### **Authors, Majors:**

Brittany Fischer, Geographic Information Sciences  
(grad certificate)

**Course:** GEOG 471

## **Microbiome Composition of Megachilidae Found in the Northern Great Plains**

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### **Authors, Majors:**

Kaylee Kempel, Biology  
Lily Gibson, Biology  
Jona Pedersen, Biology  
Lee Qualley, Biology  
Abigail Rehbein, Biology

**Course:** BIOL 489

**Faculty Advisor:** Rebecca Simmons

## **Immigrant Stereotypes: An Attempted Replication**

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### **Authors, Majors:**

Claire Leach, Psychology  
Charisse Vetsch, Psychology/Pre-Medicine  
Nevada Murphy, Psychology  
Paige Kozak, Pre-Occupational Therapy  
Janie Berger, Psychology

**Course:** PSYC 304

**Faculty Advisor:** Heather Terrell

## **Wind Energy of North Dakota**

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### **Authors, Majors:**

Sae Young Lee, Geography

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang

## **Erosion Estimation in Glacier National Park using Rainfall and Elevation**

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### **Authors, Majors:**

Hayden Patterson, Geology

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang

## **Succession of Calliphoridae on a Decomposed Swine Carcass During Early Fall in North Dakota**

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### **Authors, Majors:**

Nicolette Ras, Forensic Science and Criminal Justice

**Course:** HON 489

**Faculty Advisor:** Lavinia Iancu, Rebecca Rozelle-Stone

## Session 3 | 12:30 pm – 1:45 pm

### Gang Intervention Programs

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**Authors, Majors:**

Carson Albrecht, Criminal Justice & Forensic Science

**Course:** CJ 401

**Faculty Advisor:** Adam Matz

### Abell 447: Challenging Galaxy Cluster Formation Models

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**Authors, Majors:**

Sadie Bone, Physics

**Faculty Advisor:** Wayne Barkhouse

### Comparative Mapping of H2A Temporary Agricultural Workers

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**Authors, Majors:**

Ian Geller, Geography

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang

### A Look Into Undergraduate Research

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**Authors, Majors:**

Isaiah Germolus, Biology/Pre-med

Lily Gibson, Biology/Science Education

Ally Heidt, Forensic Science/Biology

Jordan Naslund, Forensic Science/Chemistry

**Course:** A&S 299

**Faculty Advisors:** Rebecca Simmons, Alena Kubatova

### Analyzing the effects of Population Growth on Land Cover/Land Use in Brazos County, Texas from 2010-2020

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**Authors, Majors:**

JamesGuy Gierisch, Geography

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang

### A Future in STEM

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**Authors, Majors:**

Ellayna LaFond, Biology

Amy Aldinger, Biology

Thomas Iken, Physics and Mathematics

Cora Reinholt, Mathematics

**Course:** A&S 299

**Faculty Advisors:** Rebecca Simmons, Alena Kubatova

## California Wildfires 10-year Comparison

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**Authors, Majors:**

Alex Lehto, Environmental Studies

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang

### Maternal Mammary Tissue Expression of SLFN12 is Decreased in Beef Cattle Fed One-Carbon Metabolite Supplementation but Not in Fetal Mammary Tissue During Pregnancy

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**Authors, Majors:**

Odele Rajpathy, Biology/ Professional Health Sciences

Dr. Marc Basson, UND SMHS

Dr. Emilie DeKrey, UND SMHS

Dr. Alison Ward, NDSU

Dr. Joel Caton, NDSU

**Faculty Advisor:** Emilie Dekrey, Marc Basson

### Study on the Impact of Precipitation on the Yield of Spring Wheat in North Dakota from 2017 to 2021

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**Authors, Majors:**

Bastien Rodrigo, Geography (M.A)

**Faculty Advisor:** Enru Wang

## Session 4 | 2:00 pm – 3:15 pm

### Attitudes Towards Muslim Americans Post 9/11

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**Authors, Majors:**

Bryn Anderson, Criminal Justice & Sociology

**Course:** SOC 475

**Faculty Advisor:** Daphne Pedersen

### US MASTER Program Video

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**Authors, Majors:**

Zachary Bigelow, Biology

Andrew Simons, Chemistry

Yuliet Monatukwa, Chemistry/Forensics

**Course:** A&S 299

**Faculty Advisor:** Rebecca Simmons, Alena Kubatova

## **The Impact of Conducting Research as an Undergraduate Student**

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### **Authors, Majors:**

Sadie Bone, Physics, Mathematics  
Sydney Menne, Physics & Mathematics  
Olivia Rike-Norman, Mathematics  
Parker Johnson, Physics

**Course:** A&S 299

## **How Chronic Absenteeism Effects Performance in North Dakota School Districts**

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### **Authors, Majors:**

Brooke Clark, Social Studies Education

**Course:** GEOG 471

## **Associations Between Social Media and Mood**

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### **Authors, Majors:**

Madison Connors, Psychology

**Course:** HON 489

**Faculty Advisor:** Heather Terrell

## **Emigration of Hispanic Population in North Dakota**

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### **Authors, Majors:**

Anibal Fernandez, GIS Graduate Certificate

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang, Manna Khan

## **Chronic Wasting Disease in North Dakota Deer Hunting Units**

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### **Authors, Majors:**

Lawson Frey, Fisheries and Wildlife Biology

**Course:** GEOG 471

## **Investigation of Thermoelectric Properties of Chromium (III) Sulfide using SThM**

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### **Authors, Majors:**

Thomas Iken, Physics and Mathematics  
Carlos Munoz, graduate student

**Faculty Advisor:** Nuri Oncel

## **Focal Adhesion Patterns in Neural Crest Cell Differentiation**

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### **Authors, Majors:**

Anna Lambertz, Psychology

**Faculty Advisor:** Amanda Haage

## **Perceptions of Manhood and Womanhood**

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### **Authors, Majors:**

Mya Raulston, Psychology/Pre-Physician Assistant  
Abby Ackerman, Psychology  
Myles Johnson, Biology/Pre-Medicine  
Julissa Miller, Psychology  
Marissa Nunberg, Psychology

**Course:** PSYC 304

**Faculty Advisor:** Heather Terrell

## **Strontium Isotope Analysis of Bison from Three Holocene Archaeological Sites in the Northern Great Plains**

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### **Authors, Majors:**

Ethan Simons, Biology

Dr. Igor Ovtchinnikov

**Faculty Advisor:** Igor Ovtchinnikov

## **Sunflower Production in North Dakota 2010, 2020**

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### **Authors, Majors:**

Dacotah Snow, Social Studies Compostie

**Course:** GEOG 471

**Faculty Advisor:** Enru Wang