

# COLLEGE OF ARTS & SCIENCES

# UNDERGRADUATE SHOWCASE

UPDATED

## December 9, 2021

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. We are pleased to present session information for the Fall 2021 Showcase.

In support of pandemic safety standards, this semester's event is held virtually via Zoom.

### INFORMATION FOR GUESTS

#### Join a session via Zoom

Click on the link in the table below.

OR Open or Launch Zoom. Select "Join Meeting" or if you have a Zoom account, "Sign In" and select "Join." Enter the Meeting ID associated with the session you'd like to join (listed in presentation details).

#### Ask Questions and Engage in Discussion

Please feel free to ask questions and engage the presenter(s). Guests may come and go from presenters' Zoom sessions, in the same way they would at a face-to-face poster session. If a conversation is occurring when you join a session, feel free to listen in and ask questions.

### PRESENTATIONS & PRESENTERS

For quick reference, below is a list of presentations scheduled for the showcase. Following the summary list are more details for each presentation.

| Student(s)   | Presentation Title  |
|--|---|
| <b>SESSION 1   9:30 am – 10:45 am</b>  |   |
| Zack Anderson<br>Sofia Hansen<br>Mattea Johnson<br>Jenna Ouradnik<br>Joshua McKeever | <b>The Role of Gender Role Threat in Attitudes Toward Lesbians</b><br><a href="#">Join Zoom Presentation</a>  |
| Steph Aubrey<br>Alayna Castro<br>Jasmine Storkheim                                   | <b>Gender and Conformity in Subjective and Objective Situations</b><br><a href="#">Join Zoom Presentation</a> |

| <b>Student(s)</b>   | <b>Presentation Title</b>   |
|---|---|
| Kayla Bemis<br>Maci Bakken<br>Danica Giese<br>Lauren Hill<br>Alexis Rehovsky                                      | <b>Perceived Warmth and Competence in the Workplace</b><br><a href="#">Join Zoom Presentation</a>   |
| Ellei Burmeister<br>Madison Connors<br>Tiahna Nicholson<br>Alaina Rivera<br>Kurtis Wagoner                        | <b>Parenthood: Warmth and Competence in the Workplace</b><br><a href="#">Join Zoom Presentation</a>   |
| Emile Dargbeh<br>Swojani Shrestha<br>Matthew Kalonick<br>Peter Knutson<br>Scott Garrett                           | <b>Expression of IG2FR, MCOLN1, SQSTM1 Lysosomal Markers in CD133+/CD24+ Cells and CD133-/CD24+ Cells Exposed to Elevated Glucose Concentrations.</b><br><a href="#">Join Zoom Presentation</a>             |
| Alexis Estad<br>Cassandra Giddings<br>Tatjana Svjetlanovic  | <b>The Stereotype Content Model: Elderly Stereotypes</b><br><a href="#">Join Zoom Presentation</a>  |
| Abigail Kraemer   | <b>Individual Versus Corporation Impact on Global Warming and Climate Change</b><br><a href="#">Join Zoom Presentation</a>  |
| Vincent Ledvina<br>Elizabeth MacDonald<br>Timothy Young<br>Wayne Barkhouse<br>Steven Collins<br>Michael McCormack | <b>The North Dakota Dual Aurora Camera (NoDDAC), a student-led citizen science project: one-year retrospective, future developments, and scientific potential</b><br><a href="#">Join Zoom Presentation</a> |
| Connor Meyer  | <b>What are the main factors that make up overall job satisfaction.</b><br><a href="#">Join Zoom Presentation</a>   |
| Nathan Moe<br>Allison Anderson<br>Igor V. Ovchinnikov   | <b>DNA tests do not recognize American bison in western North Dakota as a reservoir for <i>Borrelia burgdorferi</i>.</b><br><a href="#">Join Zoom Presentation</a>  |
| Abigail Petersen  | <b>Public Opinion Regarding Social Policies Before and After a Recession</b><br><a href="#">Join Zoom Presentation</a>  |
| Sydni Soine   | <b>Culture of Health</b><br><a href="#">Join Zoom Presentation</a>  |
| Abigail Wilhelmi  | <b>Environmental Impacts of Contact Lens Waste</b><br><a href="#">Join Zoom Presentation</a>  |

| <b>Student(s)</b>   | <b>Presentation Title</b>   |
|---|---|
| <b>SESSION 2   11:00 am – 12:15 pm</b>  |   |
| Brianna Ashworth<br>Kaylan Kemink<br>Kyle Kuechle<br>Catrina Terry<br>Susan Ellis-Felege                | <b>Gadwall nesting ecology in the Prairie Pothole Region</b><br><a href="#">Join Zoom Presentation</a>                                      |
| Anthony Baker   | <b>Saint Oswald: The Forming of Sacred Spaces</b><br><a href="#">Join Zoom Presentation</a>   |
| Cody Combs<br>Victoria Bradford<br>Xingui Shen<br>Yunfeng Zhao  | <b>Proteomics Analysis of the Effects of UCP2 Knockdown on Gallbladder Cancer Cells</b><br><a href="#">Join Zoom Presentation</a>           |
| Cailey Isaacson<br>Kaylan Kemink<br>Kyle Kuechle<br>Catrina Terry<br>Javier Lenzi<br>Susan Ellis-Felege | <b>Evaluating the Use of Drones for Locating Grassland Nesting Ducks</b><br><a href="#">Join Zoom Presentation</a>                          |
| Olivia Leabo  | <b>"For the Love of God"</b><br><a href="#">Join Zoom Presentation</a>  |
| Mackenzie Leroux  | <b>Sexual Violence in Prisons:<br/>Inmate Subculture and Demographics of Fear</b><br><a href="#">Join Zoom Presentation</a>                 |
| Violet Severinson   | <b>Old English Lives of Virgin Martyrs</b><br><a href="#">Join Zoom Presentation</a>  |
| Sydney Smith  | <b>Social Media Addiction and Adolescent Mental Health</b><br><a href="#">Join Zoom Presentation</a>  |
| John Sturgeon   | <b>Title Not Submitted</b><br><a href="#">Join Zoom Presentation</a>  |
| Ryland Torvinen   | <b>The Spiritual Setback of Gendered Anatomy</b><br><a href="#">Join Zoom Presentation</a>  |
| <b>SESSION 3   12:30 pm – 1:45 pm</b>   |   |
| Zachary Even<br>He Huang<br>Ramkumar Mathur<br>Xusheng Wang   | <b>Genome-Wide Analysis of Methylome in the Mouse Brain using Long-Read Sequencing Technology</b><br><a href="#">Join Zoom Presentation</a> |

| <b>Student(s)</b>  | <b>Presentation Title</b>   |
|--|---|
| Jarret Merschman<br>Carson Herbert<br>Maureen Ikedinobi<br>Michael Solc<br>Sa Kong<br>Ryan Askeland<br>Motoki Takaku<br>Archana Dhasarathy | <b>Exploring the effect of SARS-CoV-2 Nucleocapsid protein on the transcriptome and epigenome of breast cancer subtypes</b><br><a href="#">Join Zoom Presentation</a> |
| Kincaid Rowbotham  | <b>Building the Path to Early Alzheimer's Prediction Using Machine Learning</b><br><a href="#">Join Zoom Presentation</a>   |
| Ezri Thoreson  | <b>Foster Parents' Knowledge about Child Development, Access to Developmental Services, and Confidence in Parenting</b><br><a href="#">Join Zoom Presentation</a>     |
| Matt Waletzko  | <b>Alcohol Consumption in College Athletes</b><br><a href="#">Join Zoom Presentation</a>  |
| Krysta Warner  | <b>Differences In Online Dating Experiences</b><br><a href="#">Join Zoom Presentation</a>   |
| <b>SESSION 4   2:00 pm – 3:15 pm</b>   |   |
| Basel Alhasani   | <b>A Comparison Between Two of the Biggest Oil Fields</b><br><a href="#">Join Zoom Presentation</a>   |
| Maxwell Carlson  | <b>Internet Addiction Among Adolescents</b><br><a href="#">Join Zoom Presentation</a>   |
| Anthony Dutton   | <b>Mapping Change in Ulaanbaatar Households According to Census Data, 2000-2020</b><br><a href="#">Join Zoom Presentation</a>   |
| Austin Jenniges  | <b>Crops of Minnesota</b><br><a href="#">Join Zoom Presentation</a>   |
| Dominic Otto   | <b>Crop type change over time in ND</b><br><a href="#">Join Zoom Presentation</a>   |
| Mahdi Saeedi   | <b>Homogeneity and its relationship to partisan gerrymandering</b><br><a href="#">Join Zoom Presentation</a>  |
| Quentin Seguin   | <b>Domestic and Violent Crimes in Michigan in 2018</b><br><a href="#">Join Zoom Presentation</a>  |
| Joshua Twamley   | <b>Registered Cattle Brands in North Dakota, 2021</b><br><a href="#">Join Zoom Presentation</a>   |
| Sara Yannuzzi  | <b>Northern Pintail Population Changes, 2001 - 2011</b><br><a href="#">Join Zoom Presentation</a>   |



## PRESENTATION DETAILS

**9:30 am – 10:45 am | Session 1**

### **The Role of Gender Role Threat in Attitudes Toward Lesbians**

Student Author: Zack Anderson (Psychology)  
Co-Authors: Sofia Hansen  
Mattea Johnson  
Jenna Ouradnik  
Joshua McKeever  
Course: PSYC 304  
Faculty: Heather Terrell  
Zoom Link: <https://und.zoom.us/j/95139579540?pwd=QmpmSGpzRHE5aGJCcExZNUJ2bVUwZz09>  
Meeting ID: 951 3957 9540 Passcode: 258993

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### **Gender and Conformity in Subjective and Objective Situations**

Student Author: Steph Aubrey (Psychology)  
Co-Authors: Alayna Castro  
Jasmine Storkheim  
Course: PSYC 304  
Faculty: Heather Terrell  
Zoom Link: <https://und.zoom.us/j/95631655589?pwd=RjdJR1k4YldQWjlUejhiL2V3U0dFZz09>  
Meeting ID: 956 3165 5589 Passcode: 954891

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### **Perceived Warmth and Competence in the Workplace**

Student Author: Kayla Bemis (Psychology)  
Co-Authors: Maci Bakken  
Danica Giese  
Lauren Hill  
Alexis Rehovsky  
Course: PSYC 304  
Faculty: Heather Terrell  
Zoom Link: <https://und.zoom.us/j/99056467313?pwd=MU5NQzNGQ0tDZmpyWWZnR3ITYk1tQT09>  
Meeting ID: 990 5646 7313 Passcode: 47910

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### **Parenthood: Warmth and Competence in the Workplace**

Student Author: Ellei Burmeister (Psychology)  
Co-Authors: Madison Connors  
Tiahna Nicholson  
Alaina Rivera  
Kurtis Wagoner  
Course: PSYC 304  
Faculty: Heather Terrell  
Zoom Link: <https://und.zoom.us/j/92122765632?pwd=QXZHVmntWUVSYk41az1eFlxUHZLZz09>  
Meeting ID: 921 2276 5632 Passcode: 807233

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Session 1 Continued

**Expression of IG2FR, MCOLN1, SQSTM1 Lysosomal Markers in CD133+/CD24+ Cells and CD133-/CD24+ Cells Exposed to Elevated Glucose Concentrations.**

Student Author: Emile Dargbeh (Biology, Pre-Health Science)  
Co-Authors: Swojani Shrestha  
Matthew Kalonick  
Peter Knutson  
Scott Garrett  
Faculty: Swojani Shrestha  
Scott Garrett  
Zoom Link: <https://und.zoom.us/j/98226630499>  
Meeting ID: 982 2663 0499

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**The Stereotype Content Model: Elderly Stereotypes**

Student Author: Alexis Estad (Psychology)  
Co-Authors: Cassandra Giddings  
Tatjana Svjetlanovic  
Course: PSYC 304  
Faculty: Heather Terrell  
Zoom Link: <https://und.zoom.us/j/92661136253?pwd=czRZQmJk1lFSXRSWkswR0dxdG1yQT09>  
Meeting ID: 926 6113 6253 Passcode: 609418

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**Individual Versus Corporation Impact on Global Warming and Climate Change**

Student Author: Abigail Kraemer (Biology (Pre-Dentistry))  
Course: BIOL 480 and HON 489  
Zoom Link: <https://und.zoom.us/j/3404207078?pwd=ZUpUcFNPRnppaHR1V1R5ak1oU0hDZz09>  
Meeting ID: 340 420 7078 Passcode: UND21

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**The North Dakota Dual Aurora Camera (NoDDAC), a student-led citizen science project: one-year retrospective, future developments, and scientific potential**

Student Author: Vincent Ledvina (Physics)  
Co-Authors: Elizabeth MacDonald  
Timothy Young  
Wayne Barkhouse  
Steven Collins  
Michael McCormack  
Faculty: Wayne Barkhouse  
Timothy Young  
Zoom Link: <https://und.zoom.us/j/99197042955>  
Meeting ID: 991 9704 2955

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**What are the main factors that make up overall job satisfaction.**

Student Author: Connor Meyer (Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/97472648689?pwd=U2xkOFkxS2oraDIBVVBRU3FPVDhiZz09>  
Meeting ID: 974 7264 8689 Passcode: 340307

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Session 1 Continued

**DNA tests do not recognize American bison in western North Dakota as a reservoir for *Borrelia burgdorferi*.**

Student Author: Nathan Moe (Molecular and Integrative Biology and Forensic Science)  
Co-Authors: Allison Anderson  
Igor V. Ovchinnikov  
Faculty: Igor V. Ovtchinnikov  
Zoom Link: <https://und.zoom.us/j/96250340809?pwd=S3RrdlN2UW1UQnY3Rkc4UjhvdHgrdz09>  
Meeting ID: 962 5034 0809 Passcode: 306574

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**Public Opinion Regarding Social Policies Before and After a Recession**

Student Author: Abigail Petersen (Criminal Justice and Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/92062171910>  
Meeting ID: 920 6217 1910

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**Culture of Health**

Student Author: Sydni Soine (Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/91475237818?pwd=Vy9venJYZEVnRWWVhbE9XNidOKzd0Zz09>  
Meeting ID: 914 7523 7818 Passcode: 864098

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**Environmental Impacts of Contact Lens Waste**

Student Author: Abigail Wilhelmi (Biology (Pre-Optometry))  
Course: HON 489  
Faculty: Shaina Mattingly  
Rebecca Rozelle-Stone  
Zoom Link: <https://und.zoom.us/j/95654222043?pwd=TWFaY1Z6a3BuZE1QdTZFaG1EYVJVQT09>  
Meeting ID: 956 5422 2043 Passcode: 289232

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**11:00 am – 12:15 am | Session 2**

**Gadwall nesting ecology in the Prairie Pothole Region**

Student Author: Brianna Ashworth (Fisheries and Wildlife Biology)  
Co-Authors: Kaylan Kemink  
Kyle Kuechle  
Catrina Terry  
Susan Ellis-Felege  
Faculty: Susan Ellis-Felege  
Zoom Link: <https://und.zoom.us/j/93785218120>  
Meeting ID: 937 8521 8120

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Session 2 Continued

### **Saint Oswald: The Forming of Sacred Spaces**

Student Author: Anthony Baker (English and Theatre)  
Course: ENGL 415  
Faculty: Michelle Sauer  
Zoom Link: <https://und.zoom.us/j/94497411230>  
Meeting ID: 944 9741 1230

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### **Proteomics Analysis of the Effects of UCP2 Knockdown on Gallbladder Cancer Cells**

Student Author: Cody Combs (Psychology)  
Co-Authors: Victoria Bradford  
Xingui Shen  
Yunfeng Zhao  
Zoom Link: <https://und.zoom.us/j/94880880084>  
Meeting ID: 948 8088 0084

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### **Evaluating the Use of Drones for Locating Grassland Nesting Ducks**

Student Author: Cailey Isaacson (Fisheries and Wildlife Biology)  
Co-Authors: Kaylan Kemink  
Kyle Kuechle  
Catrina Terry  
Javier Lenzi  
Susan Ellis-Felege  
Faculty: Susan Ellis-Felege  
Zoom Link: <https://und.zoom.us/j/94600671151?pwd=eE5ua0dUWlJoU2R4NWxkWDVWUGNjZz09>  
Meeting ID: 946 0067 1151 Passcode: 836008

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### **"For the Love of God"**

Student Author: Olivia Leabo (English)  
Course: ENGL 415  
Faculty: Michelle Sauer  
Zoom Link: <https://us02web.zoom.us/j/4536008275?pwd=NUY1VFRoSi80dDMvbWQyZ013bG1SUT09>  
Meeting ID: 453 600 8275 Passcode: 106786

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### **Sexual Violence in Prisons: Inmate Subculture and Demographics of Fear**

Student Author: Mackenzie Leroux (Sociology and Criminal Justice)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://us02web.zoom.us/j/85960831320?pwd=dDlvcUVtbnVFNXV0TjBieVNieHdOdz09>  
Meeting ID: 859 6083 1320 Passcode: m79zNv

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### **Old English Lives of Virgin Martyrs**

Student Author: Violet Severinson (English)  
Course: ENGL 415  
Faculty: Michelle Sauer  
Zoom Link: <https://us04web.zoom.us/j/76922941923?pwd=SIFBMWR1UUFRRZHNPS3QvRXlqTDVUZz09>

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## Social Media Addiction and Adolescent Mental Health

Student Author: Sydney Smith (Criminal Justice and Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/91394467543?pwd=WjFKM3lQT0NZdEh6MEtxbkVUbTFXdz09>  
Meeting ID: 913 9446 7543 Passcode: 186220

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## Title Not Submitted

Student Author: John Sturgeon (English)  
Course: ENGL 415  
Faculty: Michelle Sauer  
Zoom Link: <https://und.zoom.us/j/8108018157?pwd=M0tITTVhYUZCaFhkaGpQRGJQVkrRkUT09>  
Meeting ID: 810 801 8157 Passcode: 817361

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## The Spiritual Setback of Gendered Anatomy

Student Author: Ryland Torvinen (English)  
Course: ENGL 415  
Faculty: Michelle Sauer  
Zoom Link: <https://us04web.zoom.us/j/7779448083?pwd=L0NSV1ZZQS9qTmxuZlBNanUvb3Zrdz09>

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## 12:30 pm – 1:45 pm | Session 3

### Genome-Wide Analysis of Methylome in the Mouse Brain using Long- Read Sequencing Technology

Student Author: Zachary Even (Molecular and Integrative Biology)  
Co-Authors: He Huang  
Ramkumar Mathur  
Xusheng Wang  
Faculty: Xusheng Wang  
Ramkumar Mathur  
Zoom Link: <https://und.zoom.us/j/93353819930?pwd=bStBdTQrVm03c3RkTipFVyt5bWkwdz09>  
Meeting ID: 933 5381 9930 Passcode: 900915

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### Exploring the effect of SARS-CoV-2 Nucleocapsid protein on the transcriptome and epigenome of breast cancer subtypes

Student Author: Jarret Merschman (Biology: Professional Health Sciences)  
Co-Authors: Carson Herbert  
Maureen Ikedinobi  
Michael Solc  
Sa Kong  
Ryan Askeland  
Motoki Takaku  
Archana Dhasarathy  
Faculty: Archana Dhasarathy  
Motoki Takaku  
Zoom Link: <https://und.zoom.us/j/98956808276?pwd=M2R0LzEwMUlqdm92aHlLa3ErYU5WZz09>  
Meeting ID: 989 5680 8276 Passcode: 73511

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Session 3 Continued

### **Building the Path to Early Alzheimer's Prediction Using Machine Learning**

Student Author: Kincaid Rowbotham (Molecular and Integrative Biology)  
Faculty: Ling Li  
Xusheng Wang  
Zoom Link: <https://und.zoom.us/j/97457791194?pwd=eFpQZnhtMnFzb2Q0SEVzQnc2cTRKQT09>  
Meeting ID: 974 5779 1194

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### **Foster Parents' Knowledge about Child Development, Access to Developmental Services, and Confidence in Parenting**

Student Author: Ezri Thoreson (Sociology and Criminal Justice)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/6731231903>  
Meeting ID: 673 123 1903

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### **Alcohol Consumption in College Athletes**

Student Author: Matt Waletzko (Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/7228923699?pwd=M1R6WlVnOXp3K3AyOUcwcwRjYXlydz09>  
Meeting ID: 722 892 3699 Passcode: 850728

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### **Differences In Online Dating Experiences**

Student Author: Krysta Warner (Criminal Justice and Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/93496145535?pwd=Wjc1bkVRUUE5dkNpUEEd4b1dQYzgwZD09>  
Meeting ID: 934 9614 5535 Passcode: 934817

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## **2:00 pm – 3:15 pm | Session 4**

### **A Comparison Between Two of the Biggest Oil Fields**

Student Author: Basel Alhasani (Geospatial Tech.)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://und.zoom.us/j/5573007759>  
Meeting ID: 557 300 7759

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### **Internet Addiction Among Adolescents**

Student Author: Maxwell Carlson (Sociology)  
Course: SOC 475  
Faculty: Daphne Pedersen  
Zoom Link: <https://und.zoom.us/j/2379725310?pwd=eXcyNkJBZEIOYkFJK2tpN002SGtVUT09>  
Meeting ID: 237 972 5310 Passcode: 709923

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## Mapping Change in Ulaanbaatar Households According to Census Data, 2000-2020

Student Author: Anthony Dutton (Geography)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://und.zoom.us/j/93957571705?pwd=eVQzOXJRRjNucm04QS9PTWJyc3dBQT09>  
Meeting ID: 939 5757 1705 Passcode: 347550

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## Crops of Minnesota

Student Author: Austin Jenniges (Geography)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://us04web.zoom.us/j/7799044628?pwd=dHBkV0REK0hzMINpRzZMVGJ3alhoZz09>

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## Crop type change over time in ND

Student Author: Dominic Otto (Fishery and wildlife Biology)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://und.zoom.us/j/99362141166>  
Meeting ID: 993 6214 1166

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## Homogeneity and its relationship to partisan gerrymandering

Student Author: Mahdi Saeedi (Computer Science and Mathematics)  
Course: MATH 488  
Faculty: Ryan Zerr  
Zoom Link: <https://und.zoom.us/j/5246341567>  
Meeting ID: 524 634 1567

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## Domestic and Violent Crimes in Michigan in 2018

Student Author: Quentin Seguin (Geography)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://und.zoom.us/j/99592789133?pwd=azJ5M1BZSIhia1dEZ1JoZVYwNTNLZz09>  
Meeting ID: 995 9278 9133 Passcode: 330685

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## Registered Cattle Brands in North Dakota, 2021

Student Author: Joshua Twamley (Civil Engineering)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://und.zoom.us/j/91899844049>  
Meeting ID: 918 9984 4049

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## Northern Pintail Population Changes, 2001 - 2011

Student Author: Sara Yannuzzi (Biology)  
Course: GEOG 471  
Faculty: Enru Wang  
Zoom Link: <https://und.zoom.us/j/91070398296>  
Meeting ID: 910 7039 8296

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