



UNIVERSITY OF
**NORTHERN
COLORADO**

2022 Research Day April 7, 2022

Research Excellence Awards and Developing Scholars Finalists

Humanities & Arts

Humanities & Arts Graduate and Undergraduate Oral Presentations

11:00 a.m. - 12:30 p.m. Columbine B

- Lost, Like the Tribe of Shabazz; Cultural Identities in Hip Hop
 - Primary Presenter: Andrew Moore
- The Devil Doesn't Know What You're Thinking: Book Proposal
 - Primary Presenter: Grace Davis
 - Faculty Sponsor: Ather Zia
- Theatre As a Form of Healing
 - Primary Presenter: Stephen Contreras
 - Faculty Sponsor: Elizabeth Alvarado

Humanities & Arts Undergraduate Poster Presentations

12:30 p.m. - 1:30 p.m. Mount Evans Ballroom

- Nicol Machiavelli: The Divergence from Medieval Political Philosophy and Connections to C.S. Lewis' "Prince Caspian"
 - Primary Presenter: Lexi Williams
 - Faculty Sponsor: Kristin Bovaird-Abbo
- The Reality of Land in Science Fiction and Fantasy
 - Primary Presenter: Chase Weynand
 - Faculty Sponsor: Kristin Bovaird-Abbo
- A Conversation in Literature – an Exploration of PTSD and Trauma Representation in Literature
 - Primary Presenter: Angie Kaufmann

- Faculty Sponsor: Kristin Bovaird-Abbo
- The Representation of Chosen Families Within Contemporary Speculative Fiction by Black and Indigenous Women
 - Primary Presenter: Benjamin Simon
 - Faculty Sponsor: Kristin Bovaird-Abbo
- Led to Leadership: Latina Leadership at UNC
 - Primary Presenter: Ana Palacios
 - Faculty Sponsor: Ather Zia

Natural & Health Sciences

Natural & Health Sciences Graduate Oral Presentations

1:00 p.m. - 2:00 p.m. Columbine B

- Analyzing grassland bird song and success at the landscape-level: the impact of landscape variation on Western Meadowlarks (*Sturnella neglecta*)
 - Primary Presenter: Leah Crenshaw
 - Faculty Sponsor: Lauryn Benedict
- Combined immunological effects of berberine and physical activity in a murine breast cancer model
 - Primary Presenter: Janae Mudge
 - Faculty Sponsor: Nicholas Pullen
- Physical Activity Increases Skeletal Muscle Stem Cell Frequency and Absolute Count in Rats Treated with Doxorubicin
 - Primary Presenter: Lea Haverbeck
 - Faculty Sponsor: Reid Hayward

Natural & Health Sciences Undergraduate Oral Presentations

9:00 a.m. - 10:00 a.m. Columbine B

- The Decision – Making Process of Parents choosing Cochlear Implantation for their Child
 - Primary Presenter: Karissa Terry
 - Faculty Sponsor: Sandy Bowen
- Comfort of Healthcare Professionals with End-of-Life Patient Communication: Exploring Comfort, Communication, and Education of Healthcare Professionals for End-of-Life Care
 - Primary Presenter: Madison Gremillion
 - Faculty Sponsor: Rosann Ross

- Puberty Blocker as a Gender Affirmation Treatment and the Effects on Mast Cells in Sprague-Dawley Rats
 - Primary Presenter: Ailaina Suppes
 - Faculty Sponsor: Yuyan Han
 - Other Presenters: Kelsey Krutsinger

Natural & Health Sciences Graduate Poster Presentations

10:30 a.m. - 11:30 a.m. Mount Evans Ballroom

- Benefits to Community-Engaged Research through a Cohort Experience from the Colorado School of Public Health at University of Northern Colorado
 - Primary Presenter: Stephanie Halvorson
 - Faculty Sponsor: Elizabeth Gilbert
 - Other Presenters: Michelle Delgado, Samantha Vernon
- Daily, Low-Dose Cannabidiol Has No Effect on Cardiorespiratory Fitness and Anaerobic Capacity
 - Primary Presenter: Victoria Flores
 - Faculty Sponsor: Laura Stewart
- Otoacoustic Emissions: A Case Study Before, During, and After Pregnancy
 - Primary Presenter: Leah McCaslin
 - Faculty Sponsor: Tina Stooddy
- The Effects of Exercise on Objective Measures of Sleep Quality in Cancer Patients Undergoing Treatment
 - Primary Presenter: Luke Krysnki

Natural & Health Sciences Undergraduate Poster Presentations

9:00 a.m. - 10:00 a.m. Mount Evans Ballroom

- Constructing a Model for Cosmic-Ray-Induced Hard Errors in CMOS Detectors
 - Primary Presenter: Evander Espinoza
 - Faculty Sponsor: Charles Kuehn
- Composition and molecular analysis of *Crotalus triseriatus* (Western Dusky Rattlesnake) venom
 - Primary Presenter: Parker Gottsch
 - Faculty Sponsor: Stephen Mackessy
- Puberty Blocking: H&E and Sirius Red Histology Staining for Fibrosis
 - Primary Presenter: Maya Pradhan
 - Faculty Sponsor: Yuyan han

- Other Presenters: Megan Ytzen
- Examining Evidence of Agricultural Runoff in Waterways in Weld County
 - Primary Presenter: Crystal Oubkeo
 - Faculty Sponsor: Aaron Apawu
- Do hybrid babies have hybrid venom? Characterizing venom composition of Copperhead-Cottonmouth hybrids produced in captivity
 - Primary Presenter: Tim Crowther
 - Faculty Sponsor: Stephen Mackessy

Social Sciences, Business, & Education

Social Sciences, Business, & Education Graduate Oral Presentations

2:00 p.m. - 3:00 p.m. Columbine B

- Personal characteristics of instructors that influence implementation of evidence-based instructional practices in post-secondary chemistry classrooms.
 - Primary Presenter: Brittney Morgan
- Tell Someone: An Investigation of Intent to Seek Help from Informal and Formal Sources for Suicidal Ideation
 - Primary Presenter: Sarah Pryor
 - Faculty Sponsor: Jacqueline Anderson
 - Other Presenters: Jacqueline Anderson
- Providing Cultural Capital for College Biology: a Qualitative Exploration of the Role of Instructors
 - Primary Presenter: Lydia Mayo
 - Faculty Sponsor: Susan Keenan

Social Sciences, Business, & Education Undergraduate Oral Presentations

10:00 a.m. - 11:00 a.m. Columbine B

- Gender Identity Reactions to Connection Through a Physical Activity Application
 - Primary Presenter: Danielle Belcher
 - Faculty Sponsor: Megan Stellino
- Exploring differences in depression and anxiety levels in gifted and nongifted adolescents.
 - Primary Presenter: Rowan Smart
 - Faculty Sponsor: Paul Klaczynski

- “Three Strikes, You’re Out!”: A Policy Analysis on the Colorado Habitual Offender Statute
 - Primary Presenter: Sydney McCormick
 - Faculty Sponsor: Paul Hawkins

Social Sciences, Business, & Education Graduate Poster Presentations

10:30 a.m. - 11:30 a.m. Mount Evans Ballroom

- Use of trigonometric functions in pre-calculus and calculus courses: Instructor Perception
 - Primary Presenter: Alphonse Nde Nembot
 - Faculty Sponsor: Gulden Karakok
- Nomophobia and Aspects of Social Wellness Across University Student Status and Gender
 - Primary Presenter: Chris Otero
 - Faculty Sponsor: Han Yu
 - Other Presenters: Toni Thomas
- Sexual Trauma Disclosure and Perceived Response: A Proposed Qualitative and Perceived Response: A Proposed Qualitative Analysis of How Experiences of Sexual Trauma Disclosure in Romantic Relationships Affect Future Help-Seeking
 - Primary Presenter: Stephen Bryson
 - Faculty Sponsor: Kenneth Parnell
 - Other Presenters: Clarie Leight

Social Sciences, Business, & Education Undergraduate Poster Presentations

9:00 a.m. - 10:00 a.m. Mount Evans Ballroom

- Between the Lanes: Analyzing Bike Safety and Accessibility along the Front Rang
 - Primary Presenter: Anthony Selders
 - Faculty Sponsor: Katherine Johnson
- Exploring the Effects of Early Menarche and Adolescent Sexualization on the Social Sexual Development of Black Women
 - Primary Presenter: Katilla Osindero
 - Faculty Sponsor: Janine Weaver-Douglas
- Familial Impacts and the Subsequent Perceptions on Treatment Programming for Offenders with a Substance Use Disorder
 - Primary Presenter: Aijalon Martinez
 - Faculty Sponsor: Victoria Terranova

- Emotion Regulation as a Mediator Between a History of Childhood Maltreatment and Present Levels of Self-Compassion
 - Primary Presenter: Jess Renaud
 - Faculty Sponsor: Marilyn Welsh
- Seeing Eye to Eye with Math Anxiety & Eye Tracking
 - Primary Presenter: Maddy Netuschil
 - Faculty Sponsor: Joanna Lewis
 - Other Presenters: Claire Sharp, Melody Fike, Caterina Azzarello

Developing Scholars

9:00 a.m. - 10:00 a.m. Mount Evans Ballroom

- The Opioid Crisis in the United States
 - Primary Presenter: Carlie Blazek
 - Faculty Sponsor: Angela Vaughan
- Crises of Democracy: Backsliding in America
 - Primary Presenter: Jordyn Faelber
 - Faculty Sponsor: Cynthia Mitchell
- The Chronicles of Narnia: Crime and Punishment in the Medieval Era
 - Primary Presenter: Brianna Petersen
 - Faculty Sponsor: Kristin Bovaird-Abbo
- Identifying the Nurse, Role in Antibiotic Stewardship
 - Primary Presenter: Breanna Panek
 - Faculty Sponsor: Michael Franklin
- Developing An Understanding of Storytellers' Traumatic Relationships to the Past
 - Primary Presenter: Jonah Ausbun
 - Faculty Sponsor: Kristin Bovaird-Abbo