



UNIVERSITY OF
**NORTHERN
COLORADO**

**2020 Research Day
Research Excellence Award Results**

GRADUATE

Graduate Oral Humanities & Arts

First Place

Analyce Gonzalez

Gangsta Rap Lyrics in the United States Criminal Justice System: Lyrical Literalism V.S. Lyrical Artistry

Faculty Sponsor: Jittapim Yamprai

Graduate Oral Natural & Health Sciences

First Place

Karina Sanchez

*Measuring the effects of noise, light, and landscape composition on a common backyard bird; the American Robin (*Turdus migratorius*).*

Faculty Sponsor: Lauryn Benedict

Finalists

Victoria Flores

The Effect of Cancer-Related Treatment on Fitness, and Mental and Neural Health in Cancer Survivors Enrolled in an Exercise Program

Faculty Sponsor: Laura Stewart

Aspen King

Examining the effects of aryl hydrocarbon receptor activation on gut immune responses

Faculty Sponsor: Gregory DeKrey

Graduate Oral Social Sciences, Education, Business

First Place

Sofia Softas-Nall

An Empirical Study on Chronic Illness: Implications for Counseling

Finalists

Samantha Qualkenbush

Adverse Childhood Experiences: The Influence of Poly-Victimization on Adolescent Delinquency and Adult Criminality

Emily Royse

Science identity, transformative experiences, and cell biology content intersections in undergraduate Anatomy and Physiology

Faculty Sponsor: Emily Holt

Graduate Poster Natural & Health Sciences

First Place

Patrick Wilson

Electroanalytical Tools and Biochemical Assays to Measure the Impact of Noise on Dopamine Neurotransmission in the Central Auditory Pathway

Faculty Sponsor: Aaron Apawu

Finalists

Bridget Doe

Evaluating changes in reactive oxygen species (ROS) as a plausible mechanism underlying the effect of noise on dopamine release

Faculty Sponsor: Aaron Apawu

Michael Franklin

Synthesis and Characterization of Hydrophilic Ionic Liquids: Dissolution and Modification of Brown Coal (Lignite)

Faculty Sponsor: Hua Zhao

Nicholas Harman; Nathaniel Croteau

Phase Angle Adaptation to Exercise Training in Cancer Patients Undergoing Treatment

Faculty Sponsor: Reid Hayward

Brandi Peroney

Cardiac Arrest Following Sternotomy - Changing the Norm

Faculty Sponsor: Marcia Patterson

Graduate Poster Social Sciences, Education, Business

First Place

Zachary McCarver; Kolton Vinzant

The Relationship between Motivation for and Engagement in Good and Poor Behavior in Youth Ice Hockey

Finalists:

Nathaniel Burrow

Safety Net: A Police-Mental Health Approach to Social Justice

Graduate Poster Humanities & Arts

First Place

Crystal Zhen

SMALL UNIVERSE: EXPLORING MICROORGANISMS IN WATER FROM AN ARTISTIC PERSPECTIVE

Faculty Sponsor: Anna Ursyn

Finalist

Rachel Washam

Joint Endeavor

UNDERGRADUATE

Undergraduate Oral Humanities & Arts

First Place

Benjamin Simon

Star Trek: Voyager & Distancia de Rescate: a mix of conventions and the fight against the unknown

Faculty Sponsor: Enrique Bernales Albites

Finalists

Kimberly Herrera

The importance of arts in the Civil Rights Movements

Faculty Sponsor: Enrique Bernales Albites

Kaylee Peterson

Ni Una Menos: a Latin American feminist movement

Faculty Sponsor: Enrique Bernales Albites

Undergraduate Oral Natural & Health Sciences

First Place

Isabella Aspromonte

Activation of the Aryl Hydrocarbon Receptor: an Analysis of 2,3,7,8-Tetrachlorodibenzo p-dioxin Dose-Response on Antigen-Specific Antibody

Faculty Sponsor: Gregory DeKrey

Finalists

Erin Munder

Transformation of Humulone by UV-Visible Spectroscopy with Introduction of Magnesium

Faculty Sponsor: Michael Mosher

Brittany Ross

The Drug and Alcohol Awareness Training: A Peer-led Harm Reduction Approach

Faculty Sponsor: Grace Turner

Undergraduate Oral Social Sciences, Education, Business

First Place

Kaitlin Erpenbeck

Yikes! Spider Targets Interfere with Task Completion

Faculty Sponsor: Joanna Lewis

Finalists

Kerigan Flynn

CHILDHOOD EMOTIONAL ABUSE IN RELATION TO DSM DISORDERS

Faculty Sponsor: Rosann Ross

Nathan Olin

Perceptions of Police Self- Legitimacy in the Rocky Mountain Region of the United States

Faculty Sponsor: Kyle Ward

Undergraduate Poster Natural & Health Sciences

First Place

Michael Viereckl

The Role of Creatine Supplementation in Alleviating Doxorubicin Induced Hepatotoxicity

Faculty Sponsor: Yuyan Han

Finalists

Shannon Baughman

The effects of IL-22 on MDSC recruitment in mouse 4T1 mammary carcinoma model

Faculty Sponsor: James Haughian

Branden Lawson

The Birds and the Trees

Faculty Sponsor: Lauryn Benedict

Theresa Schwartz

Determining Dietary Niche in Primates Using Portable X-Ray Fluorescence

Faculty Sponsor: Marian Hamilton

Brandon Selz

Migration Pattern Dynamics during Choroid Fissure Closure in Zebrafish

Faculty Sponsor: Andrea James

Bryce Ward

Altitudinal Migration Patterns and Hibernation Activity in Colorado Bats

Faculty Sponsor: Rick Adams

Undegraduate Poster Humanities & Arts

First Place

Dylann Leal

Keen for the Dead: Women's Roles in Irish Funerals

Faculty Sponsor: Jiacheng Liu

Finalists

Shaelyn Fritzler

The Hunger Games and the Gen Z Revolution

Faculty Sponsor: Kristin Bovaird-Abbo

Cooper Newton

Kingdom Hearts: An Unusual Crossover of American and Japanese Cultures

Faculty Sponsor: Kristin Bovaird-Abbo

Lisa O'Connor

The Intersections of Math, Art, and Identity

Faculty Sponsor: Anna Ursyn

Jorge Rubio

Bonus: A journey to masculinity

Faculty Sponsor: Kristin Bovaird-Abbo

Undegraduate Poster Social Sciences, Education, Business

First Place

Eduardo Maya

Measuring Iron Concentrations in Individuals with Cribra Orbitalia and Porotic

Hyperostosis Using XRF

Faculty Sponsor: Marian Hamilton

Finalists

Serena Bradford

Mobility and Loneliness in Active Duty Service Members

Faculty Sponsor: Katherine O'Hara

Jordan Fuselier

Initiating a New Perspective: The Prevalence, Perceptions, and Attitudes Towards

Hazing Across Student Organizations on a College Campus

Faculty Sponsor: Mary Evans

Mia Trojovsky

Psychopathy and Harm Avoidance as Mediators in the Pathway between Childhood Maltreatment and Adult Attachment Style

Faculty Sponsor: Marilyn Welsh

Elsa Yehdego

The Manifestation of colonization across calendars in periphery countries

Faculty Sponsor: Talia Carroll

DEVELOPING SCHOLARS (1st & 2nd Year Students)

Finalist - Poster

First Place

Dani Magasano

Comprehensive Evaluation and Assessment of First-Year Experience Honors Courses to Promote Holistic Learning

Faculty Sponsor: Angela Vaughan

Finalists

Jade Brolly

How social media propels social movements

Faculty Sponsor: Michael Graham

David Janson

Hairy Ainu and Lost Aryans: Differing Perceptions of the Ainu as shown by the Osaka and Louisiana Purchase Expositions

Faculty Sponsor: Jiacheng Liu

Angie Kaufmann

Long Forgotten or Still Among us: The Influence of Modern Alchemy in The Name of the Wind

Faculty Sponsor: Kristin Bovaird-Abbo

Alexis Simpson

'Come On Eileen' Behind The Scenes of Misheard Lyrics

Faculty Sponsor: Kristin Bovaird-Abbo