Fall 2022

Colorado State University

Live Learn Grow

University Honors Program

Established 1957

Honors Graduate Recognition Ceremony
December 16, 2022

Lory Student Center Ballroom
Reception to follow

LAND ACKNOWLEDGMENT

Colorado State University acknowledges, with respect, that the land we are on today is the traditional and ancestral homelands of the Arapaho, Cheyenne, and Ute Nations and peoples. This was also a site of trade, gathering, and healing for numerous other Native tribes. We recognize the Indigenous peoples as original stewards of this land and all the relatives within it. As these words of acknowledgment are spoken and heard, the ties Nations have to their traditional homelands are renewed and reaffirmed.

CSU is founded as a land grant institution, and we accept that our mission must encompass access to education and inclusion. And, significantly, that our founding came at a dire cost to Native Nations and peoples whose land this university was built upon. This acknowledgment is the education and inclusion we must practice in recognizing our institutional history, responsibility, and commitment.

The goal of the Honors Program is simple: to challenge the student to excel in and beyond the classroom. The University Honors Program encourages the student to create an academic experience that is fully aligned with the student's educational, personal, and professional goals.

Honors Designations
The University Honors Scholar program is designed for outstanding students who wish to fulfill a majority of their general education requirements through innovative interdisciplinary seminars.

Many academic departments allow students to participate in the Honors Program through the Discipline Honors Scholar program. This option is well suited for outstanding students who have completed many general education requirements and wish to focus on upper division Honors experiences in their majors.

Order of Ceremony

Welcome and Introductory Remarks
Emily Morgan, Interim Director
Dr. Anne Marie Merline, Interim Director
University Honors Program

Ceremony Address
Dan Obluda

Student Address
Sydney Ritschard, Business Administration

Honors Program Overview &
Conferring of University Honors Scholars
Sue James, Vice Provost for
Faculty Affairs

Awarding Medallions
Anne Marie Merline, Interim Director
Sue James, Vice Provost for Faculty Affairs
Andrea Duffy, Assistant Provost
Emily Morgan, Interim Director

Closing Remarks
Emily Morgan, Interim Director

Welcome to the Fall 2022 Honors Graduate Recognition Ceremony. Founded in 1957, the University Honors Program is in its 65th year. Starting with 15 students, the program has grown to nearly 1,900 students.

We recognize 62 students who have completed the requirements of the Honors program. Those students graduating as University Honors Scholars have completed 25-26 credits consisting of one of two curricula: five Honors seminars and two Honors courses in the major or two Honors seminars and 4-5 Honors courses in the major.

Sincerely,

Emily Morgan, Interim Director
Dr. Anne Marie Merline, Interim Director

Dan Obluda, Ceremony Address

Dan Obluda is an instructor in the School of Music, Theatre and Dance, and he has been teaching at Colorado State University since 2019. Before coming to CSU, Dan taught and studied at the CU Boulder, where he completed a Ph.D. in Music History in 2021. His research focuses on film music and explores how composers use a musical score to convey meanings to viewers, which is the topic of this evening's presentation. Currently, Dan teaches an array of classes in the School of Music, Theatre and Dance, and he also teaches three seminars for the University Honors Program that explore film music and American popular music.

Sydney Ritschard, Student Address

Sydney is graduating with a major in Business Administration and concentrations in Accounting and Supply Chain Management. She served as an Honors Peer Mentor, as an Admissions Ambassador, and as a leader within the Chi Alpha Campus Ministry. This spring, Sydney will be studying for the Certified Public Accounting exam and starting within assurance at MossAdams in Spokane, Washington this summer.

HONORS STAFF

Emily Morgan, Interim Director
Anne Marie Merline, Interim Director
Melanie Nichols, Program Coordinator & Track II Adviser
Shivon Costin, Primary Adviser
Lori Williams, Program Assistant
Kimberly Ross, Administrative Assistant

HONORS FACULTY, FALL 2022

Christian Becker
Joseph Brown
Carl Burgchardt
Gamze Cavdar
Hye Seung Chung
Lee Cooper
Stuart Cottrell
Ashley Davies
Tanya Dewey
Joanna Doxey
Andrea Duffy
Mary J Elkins
Kevin Foskin
Sonja Gedde
Frances Glycenfer
Aparna Gollapudi
Leah Holz
Alyson Huff
Brian Hull
Zach Hutchins
Keith Jaggers
Joon Kim
John Kitchens
Jen Krafchick
Carmen Lopez-Ramirez
Mitchell Macrae
Anne Marie Merline
Don Mykles
Dan Obluda
Carlos Olivo-Delgado
John Pippen
Jana Raadik-Cottrell
Justin Reeves
Anne Scott
Doug Sheflin
Abigail Shupe
Jose Suarez Garcia
Pam Vaughan Knaus
Nicole Vieira
Alyson Welker
Emily Wilson
Toni Zimmerman
Sarah Zwick-Tapley

Candidates for University Honors Scholar

Jacob Ahrenholtz, Zoology major
Thesis title: *Bacteriophages as a Solution to Combat Antibiotic Resistant Bacteria*
Thesis adviser: Arjun Khakhar, Biology

Catherine Allman, Art major with Integrated Visual Studies concentration and Psychology major with General Psychology concentration
Thesis title: *Pickles Moves Schools: Teaching Coping Skills in Early Childhood*
Thesis adviser: Emily Merz, Psychology

Katherine Badwey, Zoology major
Thesis title: *Assessing Drivers of Altitudinal Distribution in Migratory Birds*
Thesis adviser: Kyle Horton, Fish Wildlife and Conservation Biology

Samuel Bailey, Forest & Rangeland Stewardship major with Forest Fire Science concentration
Thesis title: *Post-Wildfire Response and Recovery Methods and Suggested Collaborations: Initial Report and Findings*
Thesis adviser: Courtney Schultz, Forest Rangeland Stewardship

Emma Baker, Fish, Wildlife, & Conservation Biology with Conservation concentration and Sports Medicine concentration and Languages, Literatures, and Cultures with Spanish concentration
Thesis title: *Impacts of Livestock and Crop Depredation on Human Tolerance for Wildlife in the Ruaha-Rungwa Landscape*
Thesis adviser: Jonathan Salerno, Human Dimensions of Natural Resources

Mitchell Ballew, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Alternative Physical Therapy Treatment Approaches to Peripheral Neuropathy*
Thesis adviser: Brian Tracy, Health and Exercise Science

Kimberly Balmer, Animal Science major
Thesis title: *The Characterization of Hoof Angle and Claw Shape in Wagyu Cattle*
Thesis adviser: Lily Edwards-Callaway, Animal Sciences

Rachel Baschnagel, Journalism and Media Communications major and Business Administration minor
Thesis title: *Fort Collins Feature*
Thesis adviser: Jake Sherlock, Journalism and Media Communication

Dorian Berg-Harry, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: *Expression of μ-Opioid Receptors in the Suprachiasmatic Nucleus of the Hypothalamus*
Thesis adviser: Jozsef Vigh, Biomedical Sciences

Meghan Boe, Music major with Music Therapy concentration
Thesis title: *Songs With Lyrics By Dorothy Fields*
Thesis adviser: Patricia Goble, School of Music, Theatre and Dance

Emma Brendle, Business Administration major with Finance and International Business and Organization and Innovation Management concentrations
Thesis title: *Empowering Women through Finance: Evaluating Microcredit as a Catalyst of Women's Equality*
Thesis adviser: Alexandra Bernasek, Economics

Valerie Carroll, Human Dimensions of Natural Resources major and Environmental Affairs and Diversity and Inclusion in Natural Resources minors
Thesis title: *Empowering Communities Through Intersectionality: The Bridge Between Climate Justice and Social Justice*
Thesis adviser: Rickey Frierson, Warner College of Natural Resources

Gabrielle Cautilli, Mechanical Engineering major
Thesis title: *The Design and Construction of a Mesocosm to Aid in the Study of Ivermectin Use Against the Spread of West Nile Virus*
Thesis adviser: Samuel Bechara, Mechanical Engineering

Katrina Clasen, Art major with Graphic Design concentration and Creative Writing minor
Thesis title: *An Investigation in Student Produced Fine Arts Publications: Pursuing Action Towards Building Community and Engaging Scholarship*
Thesis adviser: Roberto Muntoreanu, Art and Art History

Liam Conlon, Journalism and Media Communications major and Human Dimensions of Natural Resources major
Thesis title: *NISP Documentary*
Thesis adviser: Joseph Champ, Journalism and Media Communication

Satya Davis, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Examining the Impact of One Week of Time-Restricted Eating on Leptin, Ghrelin and Peptide YY*
Thesis adviser: Josiane Broussard, Health and Exercise Science

Asa Davis, Computer Science major with Software Engineering concentration
Thesis title: *Composing a Video Game Soundtrack*
Thesis adviser: Adam Torres, School of Music, Theatre and Dance

Adrienne Doran-Stout, Psychology major with General Psychology concentration
Thesis title: *Attraction to the Inanimate: A Review of Objectophilia and Fictiophilia Through a Psychological Lens*
Thesis adviser: Rachel Brenner, Psychology

Kira Douglas, Biological Science major with Biological Science concentration and Business Administration minor
Thesis title: *A Workbook for BMS 300: Principles of Human Physiology*
Thesis adviser: Gerrit Bouma, Biomedical Sciences

Caitlynn Doyle, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: *Discovering Connection and Expression: Movement as an Instrument for Growth for Children on the Autism Spectrum*
Thesis adviser: Lisa Morgan, School of Music, Theatre and Dance

Christian Dykson, Political Science major with U.S. Government, Law and Policy concentration and Spanish and Environmental and Natural Resource Economics minors
Thesis title: *Ranked-Choice Voting: An Imperfect Cure for the Terminal State of American Politics*
Thesis adviser: Samuel Houghteling, Political Science

Darby Easterday, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *CD81+ Skeletal Muscle Derived Extracellular Vesicles Promote Beige Adipogenesis In Vitro*
Thesis adviser: Daniel Lark, Health and Exercise Science

Barak Farhi, Mechanical Engineering major
Thesis title: *Hydrogen Compression and Storage*
Thesis adviser: Daniel Olsen, Mechanical Engineering

Brenna Freer, Economics major and International Development minor
Thesis title: *Underrepresentation in Economics as an Alienation Problem*
Thesis adviser: Alexandra Bernasek, Economics

Tristan Greene, Journalism and Media Communications major and Sport Management minor
Thesis title: *Understanding Mental Health of College Athletes*
Thesis adviser: Kim Mbadinga-Nzamba, Vice President for Inclusive Excellence

Peyton Harper, Zoology major and Conservation Biology minor
Thesis title: *Coral Reefs in the Caribbean*
Thesis adviser: Stuart Cottrell, Human Dimensions of Natural Resources

Alexis Hersh, Ecosystem Science and Sustainability major and Ecological Restoration minor
Thesis title: *Disturbance Responses and Management Implications for Colorado's Spruce-Fir Forests*
Thesis adviser: Jason Sibold, Anthropology and Geography

Hailee Hurtado, Psychology major with General Psychology concentration and Ethics and Society certificate
Thesis title: *Polygenic Risk Scores for Depression and Brain Structure in Children and Adolescents*
Thesis adviser: Emily Merz, Psychology

Miles Innes, Ecosystem Science and Sustainability major and Geospatial Information Science for Natural Resources minor
Thesis title: *Characterizing vegetative recovery in the Cameron Peak Fire burn scar*
Thesis adviser: Anthony Vorster, Natural Resource Ecology Lab

Kaitlin James, Microbiology major
Thesis title: *Advancing Methodologies for in Vitro Drug assessment Under Conditions of Extreme Drug Tolerance*
Thesis adviser: Gregory Robertson, Microbiology, Immunology and Pathology

Claire Johnson, History major with General History concentration and Languages, Literatures and Cultures major with French concentration

Thesis title: *Rising Above the Misogyny: Politically Active Courtesans in Antiquity*
Thesis adviser: Kristin Heineman, History

Joshua Jones, Environmental Engineering major

Thesis title: *Colorado State University Mountain Campus Trail System & Trailhead Expansion*
Thesis adviser: Christopher Thornton, Civil Engineering

Callan Knebel, Chemistry major with ACS Certified concentration, Music major with Performance concentration and Natural Sciences major with Chemistry Education concentration

Thesis title: *Ternary Metal Nitrides: Synthesizing MgWN2*
Thesis adviser: Jamie Neilson, Chemistry

Hanna Lewis, Biomedical Sciences major and Environmental Health minor

Thesis title: *Analysis of Medical Provider Communication with Transgender/Gender Nonconforming Patients*
Thesis adviser: Nicole Kelp, Microbiology, Immunology and Pathology

Julia Love, Biomedical Sciences major

Thesis title: *Understanding Neuroendocrinology and Behavior of Induced Ovulators Using a Domestic Cat Model*
Thesis adviser: Christianne Magee, Biomedical Sciences

Brandon Lowry, Biomedical Sciences major with Anatomy and Physiology concentration

Thesis title: *Virtually the Same: Exploring the Effects of Standard Two-Dimensional Anatomical Models and Virtual Reality Models on Visuospatial Skills.*
Thesis adviser: Tod Clapp, Biomedical Sciences

Amelia Malone, Social Work major and Criminology, Criminal Justice minor

Thesis title: *Criminalization vs. Legalization: A Comparative Look at Professional Attitudes and Potential Impacts of Prostitution in the United States*
Thesis adviser: Jamie Yoder, Social Work

Madeleine Mason, Environmental and Natural Resource Economics major and Environmental Affairs minor

Thesis title: *Total Economic Valuation of Rights of Nature Resolution for the Cache La Poudre Watershed*
Thesis adviser: Andrew Seidl, Agricultural and Resource Economics

Eric Meyer, Health and Exercise Science major with Sports Medicine concentration

Thesis title: *Success in Health and Exercise Science: An Experimental Course for First-Generation Undergraduate Students*
Thesis adviser: Ryan Donovan, Health and Exercise Science

Lars Mitchel, Mechanical Engineering major

Thesis title: *Solid Oxide Fuel Cell Integrated with an Internal Combustion Engine*
Thesis adviser: Todd Bandhauer, Mechanical Engineering

Katlyn Murphy, Microbiology major

Thesis title: *Undergraduate STEM Students Attitudes Towards Science-Based Community Engagement*
Thesis adviser: Nicole Kelp, Microbiology, Immunology and Pathology

Emma Paul, Zoology major

Thesis title: *Cytauxzoonosis: A look Into the Deadly Feline Disease*
Thesis adviser: Tanya Dewey, Biology

Alissa Pessin, Biomedical Sciences major and Chemistry minor

Thesis title: *Effects of lipid and nutritional supplementation on muscle mitochondrial function in old horses*
Thesis adviser: Adam Chicco, Biomedical Sciences

Sarai Ramnani, Zoology major and Horticulture, Biochemistry and Mathematical Biology minors

Thesis title: *Elucidating the Cause of eYFP variation After Induction in an Episome Based Expression System of Phaeodactylum Tricornutum*
Thesis adviser: Graham Peers, Biology

Kristina Richter, Sociology major with General Sociology concentration and History minor

Thesis title: *Prisons Pollute*
Thesis adviser: Anthony Roberts, Sociology

Sydney Ritschard, Business Administration major with Accounting and Supply Chain Management concentrations
Thesis title: *Distribution of the COVID-19 Vaccine: Moderna vs. Pfizer*
Thesis adviser: Paul Vanderspek, Management

Peyton Robie, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Lilith, The Cancer Cell*
Thesis adviser: Mark Brown, Clinical Sciences

Kristin Rugh, Microbiology major and Chemistry minor
Thesis title: *Characterization of Tertiary Lymphoid Structures in Canine Sarcomas*
Thesis adviser: Christine Olver, Microbiology, Immunology and Pathology

Olivia Simpson-Klein, Biomedical Sciences major with Microbiology and Infectious Diseases concentration
Thesis title: *Assessing Treatments for Acne Vulgaris: Strengths, Weaknesses, and Future Directions*
Thesis adviser: Jennifer McLean, Microbiology, Immunology and Pathology

Taryn Smith, English major with Literature concentration
Thesis title: *Adapting Shakespeare for a Modern Classroom: A Gender-Focused Approach to Understanding Hamlet*
Thesis adviser: Patricia Shutters, English

Shelby Smith, Neuroscience major with Cell and Molecular Neuroscience concentration and Italian Studies minor
Thesis title: *Heavy Metals Sensitize Microglia to the Neuroinflammatory Effects of Bacterial Endotoxin through Activation of Nuclear Factor Kappa B*
Thesis adviser: Ronald Tjalkens, Environmental and Radiological Health Sciences

Jessica Snyder, Business Administration major with Organization and Innovation Management, Finance and Accounting concentrations and Entrepreneurship and Innovation minor
Thesis title: *Batter Up Bakery and Coffee Shop Business Plan*
Thesis adviser: Kipp Krukowski, Management

Jack Sorensen, Mechanical Engineering major
Thesis title: *Mesocosm Design and Construction for Vector-Borne Infectious Disease Studies*
Thesis adviser: Daniel Wise, Mechanical Engineering

Conor Strizich, Civil Engineering major
Thesis title: *CSU Mountain Campus Bridge Replacement*
Thesis adviser: Christopher Thornton, Civil Engineering

Mae Tice, Ecosystem Science and Sustainability major
Thesis title: *The Outlook on Tundra Biomes in a Global Change Regime: A Review*
Thesis adviser: Alex Masarie, Ecosystem Science and Sustainability

Lauren Trujillo, Music major with Music Therapy concentration
Thesis title: *Inclusive Bible Study at Colorado State University: The Need and the Implementation*
Thesis adviser: Denise Apodaca, School of Music, Theatre and Dance

Maya Vitrano, Computer Science major with Computer Science concentration
Thesis title: *GAN You Tell How Hot I Am*
Thesis adviser: Nathaniel Blanchard, Computer Science

Brooke Yeatts, Biological Science major with Biological Science concentration
Thesis title: *Susceptibility of Rainbow Trout and Cutthroat Trout to Renibacterium salmoninarum*
Thesis adviser: Dana Winkelman, Cooperative Fish and Wildlife Research

Alexander Yung, Mechanical Engineering major
Thesis title: *Mitigation of Workplace-Related Injuries in Veterinary Hospitals: The Design and Analysis of a Force Modulating Dog Walker*
Thesis adviser: Samuel Bechara, Mechanical Engineering

Miranda Zuvich, Animal Science major
Thesis title: *Analysis of Repeatability, Correlation, and EPD Reporting for Beef Cattle Feet and Leg Traits*
Thesis adviser: Richard Enns, Animal Sciences