

**Spring 2022**  
**Colorado State**  
**University**



*Live Learn Grow*

**University Honors**  
**Program**  
Established 1957

**Honors Graduate**  
**Recognition Ceremony**  
**May 13, 2022**

Lory Student Center Ballroom  
Reception to follow

*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.

Welcome to the Spring 2022 Honors Graduate Recognition Ceremony. Founded in 1957, the University Honors Program is in its 63rd year. Starting with 15 students, the program has grown to nearly 1,800 students.

We recognize 298 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,

A handwritten signature in black ink that reads "Donald L. Mykles". The signature is written in a cursive style with a horizontal line underlining the first name.

Donald L. Mykles, Director  
Professor of Biology

# Order of Ceremony

Welcome and Introductory Remarks  
Dr. Donald Mykles, Director  
University Honors Program

Ceremony Address  
Dr. Andrea Gomez, Assistant Professor  
UC Berkeley

Student Address  
Keelan Kenny, Biomedical Sciences and Environmental Health

Honors Program Overview  
Dr. Kelly Long, Vice Provost for  
Undergraduate Affairs

Conferring of University Honors Scholars  
Dr. Mary Pedersen, University Provost

Presentation of Honors Graduates  
Emily Morgan, Assistant Director  
University Honors Program

Awarding Medallions  
Dr. Donald Mykles, Director

Closing Remarks  
Dr. Donald Mykles, Director

Reception to follow

# **Platform Party**

Dr. Donald Mykles, Director  
University Honors Program

Emily Morgan, Assistant Director  
University Honors Program

Dr. Andrea Gome, Guest Speaker and  
Distinguished Honors Alumnus

Dr. Kelly Long, Vice Provost for  
Undergraduate Affairs

Dr. Mary Pedersen, Provost

### **Andrea Gomez Ceremony Address**

Dr. Gomez is Assistant Professor of Neuroscience at UC Berkeley. Andrea is an alumna of the University Honors Program, graduating with a Bachelor of Science in Biological Science in 2006. Andrea grew up in New Mexico and came to CSU almost 20 years ago - in Fall 2002. I've known Andrea since 2003, when she joined my lab in Biology as an undergraduate research assistant. I am the Principal Investigator of the CSU Crab Lab, where we study the hormonal control of growth and limb regeneration in crabs. I honestly don't remember how she ended up in my lab – perhaps she'll share that with you – but that introduction to experimental science put her on the path for a career in biomedical research. It was obvious that Andrea loved research and that she was very good at it! After graduating from CSU, she earned her Ph.D. in Developmental Genetics from New York University Langone Medical Center in 2014, followed by a postdoctoral fellowship at the University of Basel in Basel, Switzerland. Andrea joined the faculty at UC Berkeley in 2020.

### **Keelan Kenny, Student Address**

Keelan is graduating with majors in Biomedical Sciences and Environmental Health and a minor in Spanish. She served as an Honors Peer Mentor and a Resident Assistant in the Honors Residential Learning Community. She received a prestigious Fulbright Scholarship from the State Department to study infectious diseases as part of a master's degree program at the Royal Veterinary College in London.

### **Honors Faculty**

Andre Archie  
Chris Becker  
Joseph Brown  
Carl Burghardt  
Gamze Cavdar  
Hye Seung Chung  
Lee Cooper  
Stuart Cottrell  
Ashley Davies  
Tanya Dewey  
Joanna Doxey  
Andrea Duffy  
Mary Elkins  
Peter Erickson

Kevin Foskin  
Francie Glycenfer  
Aparna Gollapudi  
Margit Hentschel  
Dana Hoag  
Sonja Hollingsworth  
Leah Holz  
Brian Hull  
Zach Hutchins  
Keith Jaggers  
Joon Kim  
John Kitchens  
Jen Krafchick  
Carmen Lopez-Ramirez  
Anne Marie Merline

Dan Obluda  
Carlos Olivo-Delgado  
Michael Pante  
John Pippen  
Jana Raadik Cottrell  
Justin Reeves  
Anne Scott  
Doug Sheflin  
Jose Suarez Garcia  
Pam Vaughan Knaus  
Nicole Vieira  
Emily Wilson  
Toni Zimmerman  
Sarah Zwick-Tapley

### **Honors Staff**

Donald Mykles, Director  
Emily Morgan, Assistant Director  
Melanie Nichols, Program Coordinator & Track II Adviser  
Shivon Costin, Primary Adviser  
Lori Williams, Program Assistant  
Kimberly Ross, Administrative Assistant

### **Faculty Honors Council**

The Faculty Honors Council (FHC) consists of ten voting members: one from each of the eight colleges, one from the Libraries, and a student representative from the Honors Students Association. The Honors Program Director and Assistant Director serve as *ex officio*. FHC members participate actively in the formulation of academic and administrative policies of the University Honors Program and serve as an advisory board to the University Honors Program Director.

### **Faculty Honors Council Members**

Jane Stewart, College of Agricultural Sciences  
Jennifer Krafchick, College of Health and Human Sciences  
Bill Shuster, College of Business  
Carmen Menoni, College of Engineering  
Kevin Foskin, College of Liberal Arts  
Ben Clegg, College of Natural Sciences  
Carolyn Meyer, College of Veterinary Medicine and Biomedical Sciences  
Stuart Cottrell, Warner College of Natural Resources  
Rob Sica, University Libraries  
Jack Powell, Honors Student Association Representative  
Emily Morgan (ex-officio), University Honors Program  
Don Mykles (ex-officio), University Honors Program

This is the 48th year that Honors students have nominated great teachers for the Honors Prof of the Year Award. The winner was chosen by the officers of the Honors Student Association. The winner will receive a plaque and a stipend of \$1,000 and present the Honors Prof lecture in the fall.

The Honors Adviser of the Year candidates are also nominated by students and the winner is selected by the Honors Student Association Officers. The winner receives a stipend of \$500 and a plaque.

**Honors Prof Nominees**

Randall Boone, Ecosystem Science and Sustainability  
Joseph Brown, Institute for Learning and Teaching  
Tom Cavanagh, Ethnic Studies  
Ashley Davies, English  
Joanna Doxey, College of Liberal Arts  
Anders Fremstad, Economics  
Leah Holz, University Honors Program  
Keith Jagers, University Honors Program  
Jen Krafchick, Human Development and Family Studies  
Carmen López Ramirez, Languages, Literatures and Cultures  
Anne Marie Merline, University Honors Program  
Dan Obluda, School of Music, Theatre and Dance  
Anne Scott, University Honors Program  
Douglas Sheflin, History  
Pam Vaughan Knaus, University Honors Program  
Nicole Vieira, University Honors Program  
Toni Zimmerman, Human Development and Family Studies  
Sarah Zwick-Tapley, University Honors Program

**Honors Adviser Nominees**

Jimmy Hicks, College of Business  
Nancy Levinger, Chemistry  
Stephanie Lebsock, Animal Sciences  
Stacy Lynn, Natural Resource Ecology Lab  
Don Mykles, University Honors Program  
Melanie Nichols, University Honors Program  
Shivon Pontious, University Honors Program  
Erin Reichert, Environmental and Radiological Health Sciences  
Tracy Richards, Psychology  
Evan Sproul, Mechanical Engineering  
Pamela Vaughan Knaus, University Honors Program  
Nicole Vieira, University Honors Program

## Candidates for University Honors Scholar

**Brynne Adams**, Political Science major with U.S. Government, Law and Policy concentration and Legal Studies minor

Thesis title: *Community In Schools: Building a Culture of Care to reduce the school-to-prison pipeline*  
Thesis adviser: Tom Cavanagh, Ethnic Studies

**Emma Adams**, Environmental Engineering major

Thesis title: *Black Hollow Flood Forensic Study*  
Thesis adviser: Christopher Thornton, Civil Engineering

**Tyler Adams**, Psychology major with Clinical/Counseling Psychology concentration

Thesis title: *MFT Trainees' Experiences in an Alternate Clinical Setting*  
Thesis adviser: Jen Krafchick, Human Development and Family Studies

**Sydney Alderfer**, Biomedical Engineering with Chemical Engineering major and Leadership Studies minor

Thesis title: *Development of a Convolutional Neural Network for Breast Cancer Cell Image Classification: Feature Extraction and Data Visualization Methods for Acquiring Biologically-Relevant Information*

Thesis adviser: Ashok Prasad, Chemical and Biological Engineering

**Sage Allen**, Biochemistry major with General Biochemistry concentration and Applied Data Science minor

Thesis title: *Kinetics of Double-Stranded DNA Break Induction in Cells by CRISPR-Cas9*  
Thesis adviser: Jac Nickoloff, Env & Rad Health Sciences

**Shidizja Altamirano**, Biomedical Sciences major and Zoology minor

Thesis title: *The World's Serpents: Comparative Gross Anatomy of Snakes*  
Thesis adviser: Rachel Mueller, Biology

**Emily Baller**, Business Administration major with Organization and Innovation Management concentration

Thesis title: *Pragmatic Political Partners: Exploring Colorado's Political Consulting Market and How a New Firm Can Thrive*  
Thesis adviser: Bill Shuster, Management

**Taylor Baptiste**, Theatre major with Performance concentration and Business Administration minor

Thesis title: *Ms. Craw's Diamond Ring: A Script Development*  
Thesis adviser: Wesley Longacre, School of Music Theatre Dance

**Grayson Barber**, Mechanical Engineering major

Thesis title: *Magna-Shox Senior Design Project: Vehicle Modeling*  
Thesis adviser: Bert Vermeulen, Dean of Engineering

**Rebecca Barbier**, Fish, Wildlife and Conservation Biology with Wildlife Biology concentration and Ecological Restoration minor

Thesis title: *Life History Consequences of Climate Change in Hibernating Sciurids*  
Thesis adviser: Lise Aubry, Fish, Wildlife and Conservation Biology

**Kaydee Barker**, Ecosystem Science and Sustainability major and Soil Science minor

Thesis title: *Changes at the Root: How Do Mycorrhizal Fungi Modify Root Traits Key to Stable Soil Organic Matter Formation?*  
Thesis adviser: Francesca Cotrufo, Soil and Crop Sciences

**Lincoln Barker**, Business Administration major with Financial Planning concentration

Thesis title: *Fitness Brand Business Plan: Protamorph, LLC.*  
Thesis adviser: Ralph Switzer Jr, Finance and Real Estate

**Ethan Barron**, Biomedical Engineering with Mechanical Engineering major

Thesis title: *Augmented Reality Ultrasound with Echogenic Needle*  
Thesis adviser: Stuart Tobet, Biomedical Sciences

**Anna Bautista**, Zoology major and Anthropology minor

Thesis title: *A Framework for Understanding the Interindividual Variation in Learning Ability in Honeybees*  
Thesis adviser: Dhruva Naug, Biology

**Benjamin Beauvais**, Electrical Engineering major with Electrical Engineering concentration

Thesis title: *Outreach in the Department of Electrical and Computer Engineering*  
Thesis adviser: Olivera Notaros, Elec & Comp Engr

- Jordyn Becker**, Biomedical Sciences major  
 Thesis title: *Intra-Articular Phosphate Buffered Saline Injections to Treat Post-Traumatic Osteoarthritis in a Mouse Model*  
 Thesis adviser: Kelly Santangelo, Microbiology, Immunology and Pathology
- Caitlin Benson**, Environmental Horticulture major with Landscape Design and Contracting concentration  
 Thesis title: *A Greener Green Industry: Reimagining the Residential Front Yard*  
 Thesis adviser: Scott Curry, Horticulture & Landscape Arch
- Ryeson Berne**, Political Science major with and Criminology/Criminal Justice minor  
 Thesis title: *The Decay of Federalism when Analyzed Through the Case of Colorado Legalizing Marijuana*  
 Thesis adviser: Courtenay Daum, Political Science
- Cooper Bisset**, Geography major  
 Thesis title: *Asset Based Community Development With Habitat for Humanity Fort Collins*  
 Thesis adviser: Anne Merline, University Honors Program
- Melanie Blake**, Mechanical Engineering major  
 Thesis title: *Construction of a transhumeral prosthesis for a quadruple amputee*  
 Thesis adviser: Samuel Bechara, Mechanical Engnr
- Reilly Blakeslee**, Economics major with General Statistics concentration and Mathematics minor  
 Thesis title: *The Viability of Wind, Solar, and Geothermal Energy From an Economic Perspective*  
 Thesis adviser: Jo Barbier, Economics
- 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
- Matthew Bomar**, Health and Exercise Science major with Health Promotion concentration and Biomedical Sciences minor  
 Thesis title: *Influence of Edible Marijuana on Endurance Exercise*  
 Thesis adviser: Christopher Bell, Health and Exercise Science
- Sara Bovaird**, Interior Architecture and Design major and Global Environmental Sustainability minor  
 Thesis title: *An Application of COVID-19 Design Precautions: Inserting Researched Design Methodologies Into a Senior Interior Design Capstone to Explore Effective Solutions to Pandemic Design*  
 Thesis adviser: Laura Malinin, Design and Merchandising
- Alexandra Bower**, Biomedical Sciences major  
 Thesis title: *Cause and Effect of Shifting Anatomy Instruction Virtual*  
 Thesis adviser: Carolyn Meyer, Biomedical Sciences
- Katherine Boyd**, Chemical and Biological Engineering major and Spanish and Environmental Engineering minors  
 Thesis title: *A Study Into Modularity in an Autonomous Drone for the Detection of Harmful Algal Blooms*  
 Thesis adviser: Steven Simske, Systems Engineering
- Casey Bradley**, Business Administration major with Finance and International Business concentrations  
 Thesis title: *Understanding Factors that Influence Student Debt Usage and Levels*  
 Thesis adviser: Vickie Bajtelsmit, Finance and Real Estate
- Raechel Brady**, Biomedical Sciences major  
 Thesis title: *Effects of Chronic Stress on the Cardiovascular System*  
 Thesis adviser: Ryan Maresh, Biomedical Sciences
- Grace Branaugh**, Animal Science major and Agricultural Business minor  
 Thesis title: *Agriculture Appreciation: An All University Core Curriculum (AUCC) course developed to broaden students' understanding of where food comes from.*  
 Thesis adviser: Ivette Roman-Muniz, Animal Sciences
- Cassandra Brandriff**, Music major with Music Education concentration  
 Thesis title: *Trauma-Informed Approaches For Teaching Undergraduate Voice Students With Disordered Eating Experiences*  
 Thesis adviser: Nicole Asel, School of Music, Theatre and Dance
- Gabriele Brown**, Biomedical Sciences major and Spanish minor  
 Thesis title: *Novel Virus, Novel Response: How Colorado State University Responded to the COVID-19 Pandemic Through Widespread Testing and Why the Response Was Unique*  
 Thesis adviser: Kimberly Jeckel, Biomedical Sciences

- Lauren Brown**, Biomedical Sciences major and Creative Writing minor  
Thesis title: *Branches of Responsibility: A Collection of Science Fiction Short Stories*  
Thesis adviser: Ben Greenlee, English
- Megan Brown**, Psychology major with Clinical/Counseling Psychology concentration  
Thesis title: *A Mixed Method Examination of Existential Anxiety in College Students*  
Thesis adviser: Mark Prince, Psychology
- Adam Burke**, Forest and Rangeland Stewardship major with Forest Fire Science concentration  
Thesis title: *Case Study of the Factors and Operational Decisions Involved in the Suppression of the Cameron Peak Fire*  
Thesis adviser: Yu Wei, Forest Rnglnd Stwdshp
- Ciana Burroughs**, Psychology major with Clinical/Counseling Psychology concentration and Spanish concentration  
Thesis title: *The Regulation Of Negative And Positive Emotions And Their Effect On The Relationship Between Stress And Alcohol Use And Problems*  
Thesis adviser: Noah Emery, Psychology
- Benjamin Byars**, Physics major with Applied Physics concentration and Geology major with Geophysics concentration  
Thesis title: *Structural Analysis of an Andalusite-Grade Metamorphic Zone in the Pennsylvanian Minturn Formation Sangre De Cristo Mountains, Colorado*  
Thesis adviser: John Singleton, Geosciences
- Erin Campbell**, Biochemistry major with Health and Medical Sciences concentration and Biomedical Sciences minor  
Thesis title: *Biochemical Risk Factors of Anterior Cruciate Ligament (ACL) Injuries: Prevention and NewPost Operational Therapies*  
Thesis adviser: Jeffrey Hansen, Biochem Molec Bio
- Hope Carlson**, Civil Engineering major  
Thesis title: *CSU Mountain Campus Multi-Use Trails and Corresponding Trailheads*  
Thesis adviser: Christopher Thornton, Civil Engineering
- Cecilia Carter**, Biological Science major with Biological Science concentration and Business Administration minor  
Thesis title: *Business Case for Integration of Wildlife Acupuncture into the Veterinary Clinic Setting By Ceci Carter*  
Thesis adviser: Ellen Burnes, Fin and Real Estate
- Anna Castro**, Health and Exercise Science major with Sports Medicine concentration and Spanish minor  
Thesis title: *The Life Of A Climber Of Color*  
Thesis adviser: S Mahoney, Sociology
- Madison Chudzik**, Fish, Wildlife and Conservation Biology with Wildlife Biology concentration  
Thesis title: *Examination Of Migratory Bird Flight Calls In Relation To Radar Forecasting*  
Thesis adviser: Jacob Job, Fish, Wildlife and Conservation Biology
- Kevin Clausen**, Animal Science major and Biomedical Sciences major with Microbiology and Infectious Disease concentration and Mathematics minor  
Thesis title: *Developments in Phage Therapy in Animal Medicine and How to Increase its Popularity*  
Thesis adviser: Jennifer Martin, Animal Sciences
- Miranda Coldren**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and Languages, Literatures and Cultures major with Spanish concentration  
Thesis title: *Mechanisms of Action for Autoantibodies Against AMPA and NMDA Receptors in Anti AMPA and Anti NMDA Encephalitis*  
Thesis adviser: Fred Hoerndli, Biomedical Sciences
- Madeline Collins**, Environmental Engineering major  
Thesis title: *Agricultural Irrigation System Design*  
Thesis adviser: Christopher Thornton, Civil Engineering
- Kathryn Colson**, Human Dimensions of Natural Resources major  
Thesis title: *Impact of Youth Participation in Various Outdoor Recreation Activities on Understanding of Leave No Trace Principles*  
Thesis adviser: Stuart Cottrell, Human Dimensions of Natural Resources

**Kamiyah Corinaldi**, Microbiology major and Chemistry minor

Thesis title: *Effective Antimicrobial Treatment Against Nontuberculosis Mycobacteria*

Thesis adviser: Diane Ordway, Microbiology, Immunology and Pathology

**Sophia Corioso**, Sociology major with General Sociology concentration and Ecosystem Science and Sustainability major

Thesis title: *Globalized Tensions in Biodiversity Conservation: 2 Case Studies from the Global South*

Thesis adviser: Peter Taylor, Sociology

**Grace Covak**, Equine Science major

Thesis title: *The Quality, Accessibility, and Demographics of Proper Equine Health Care*

Thesis adviser: Mary Cramer, Animal Sciences

**Charles Cox**, Business Administration major with Information Systems concentration and Mathematics minor

Thesis title: *A Cost-Effective, Efficient and Environmentally Conscious Data Center: Is This Practical*

Thesis adviser: Jonathan Firooz, Marketing

**Jessica Craig**, Biomedical Sciences major

Thesis title: *Effects of Mild Traumatic Brain Injury History on Selective Attention and Target Detection: An EEG Study*

Thesis adviser: Jaelyn Stephens, Occupational Therapy

**Colin Crawford**, Art major with Graphic Design concentration and Information Science and Technology minor

Thesis title: *Thinking Inside the Box: An Exploration of Personal Design*

Thesis adviser: Pamela Vaughan Knaus, University Honors Program

**Ethan Creagar**, Data Science major with Computer Science concentration

Thesis title: *Predicting the movement of soccer players using neural networks*

Thesis adviser: Aaron Nielsen, Statistics

**Peyton Dailey**, Political Science major and Languages, Literatures and Cultures major with French concentration and Russian Studies and Spanish minors

Thesis title: *Examining the Precedent of Racism Both Set and Perpetuated by the Supreme Court During Four Respective Eras: de jure Slavery Up Until the Passage of the 14th Amendment, de facto Slavery After the Establishment of the 14th Amendment Up Until*

Thesis adviser: Peter Harris, Political Science

**Natasha Daney**, Ecosystem Science and Sustainability major and Environmental Affairs and Sustainable Energy minors

Thesis title: *Outdoor Recreation: Mental Health Benefits and Accessibility for the LGBTQ + Community*

Thesis adviser: Anne Marie Merline, Honors Program

**Ianna Debrunner**, Biochemistry major with General Biochemistry concentration and Molecular Biology minor

Thesis title: *The Interactome of Possible Nucleotide Excision Repair Proteins in Thermococcus Kodajarensis*

Thesis adviser: Tom Santangelo, Biochemistry and Molecular Biology

**Leslie DeLay**, Biomedical Engineering with Mechanical Engineering major

Thesis title: *Minimally Invasive Access for Gallstone Removal*

Thesis adviser: Ellen Brennan-Pierce, Dean of Engineering

**Jack Derbique**, Civil Engineering major

Thesis title: *Grand River Ditch Hydraulic Modeling and Spillway Design*

Thesis adviser: Christopher Thornton, Civil Engineering

**Anna Dienstbier**, Zoology major and Spanish minor

Thesis title: *Who Wakes Up After the Sun Goes Down? - A Story of the Nocturnal Animals in the Colorado Foothills*

Thesis adviser: Andrea Purdy, Languages, Lits and Cultures

**Katherine Dillon**, Art major with Graphic Design and Painting concentrations and Creative Writing minor

Thesis title: *Social Movements During Covid's Isolation, An Illustrative Study*

Thesis adviser: John Gravdahl, Art and Art History

**Jonah Dineen**, Biological Science major with Biological Science concentration

Thesis title: *Morphometric Analysis of Black-Footed Ferret Skull Changes in Captive and Wild Populations*

Thesis adviser: Tanya Dewey, Biology

- Jenna Ditzel**, Natural Resources Management and Business Administration minor  
 Thesis title: *Disturbance Effects on Bombus and Yeast Interactions in Forested Ecosystems*  
 Thesis adviser: Thomas Davis, Forest Rnglnd Stwdshp
- Macey Dodd**, Statistics major, Economics major and Mathematics minor  
 Thesis title: *Reducing Carbon Dioxide Emissions Through Policy Implementation*  
 Thesis adviser: Joanne Barbier, Economics
- Preston Dunton**, Computer Science major with Artificial Intelligence and Machine Learning concentration and Mathematics and Statistics minors  
 Thesis title: *Rhythm Regression: Communicating Marching Percussion Audio Data*  
 Thesis adviser: L Whitley, Computer Science
- Brady Durham**, Civil Engineering major and Construction Management minor  
 Thesis title: *Structural Design for Centennial Lending's Headquarters*  
 Thesis adviser: Hussam Mahmoud, Civil Engineering
- Gracie Eaton**, Microbiology major and Biomedical Sciences minor  
 Thesis title: *Chimeric Antimicrobial Enzyme: Jel-Endo*  
 Thesis adviser: Claudia Gentry-Weeks, Mcrblgy, Immnlgly & Pthlgy
- Jillian Eddy**, Mathematics major with General Mathematics concentration  
 Thesis title: *The Visual Art of Mathematics: An Analysis of Projective Geometry Through Art History and Modern Perspectives*  
 Thesis adviser: Clayton Shonkwiler, Mathematics
- Alaa Eldeiry**, Chemical and Biological Engineering major and Biomedical Sciences and Biomedical Engineering minors  
 Thesis title: *Open Insulin Senior Design Project*  
 Thesis adviser: Ashok Prasad, Chemical Engineering
- Shehab Elhaddad**, Chemical and Biological Engineering major  
 Thesis title: *A Biological Approach to Extraterrestrial Life Sustainment*  
 Thesis adviser: Brian Munsky, Chemical Engineering
- Emma Enebo**, Ecosystem Science and Sustainability major with Rangeland and Forest Management concentration and Forest and Rangeland Stewardship major  
 Thesis title: *Battle of the Plants: Plant Traits and Plant Competition*  
 Thesis adviser: Troy Ocheltree, Forest & Rangeland Stewardship
- Jessica Fagan**, Restoration Ecology major and Geospatial Information Science for Natural Resources minor  
 Thesis title: *Characterizing Differences in Soil Characteristics Between Intact, Restored, and Degraded Ecosystems Across the Southwestern United States: Support for Restoration Target-Setting*  
 Thesis adviser: Caroline Havrilla, Forest Rnglnd Stwdshp
- Corrina Farho**, Political Science major with Environmental Politics and Policy concentration and International Studies major with Middle East and North African Studies concentration  
 Thesis title: *The Environmental History of the Globeville and Elyria-Swansea Communities Since the 1800s*  
 Thesis adviser: Marcela Velasco, Political Science
- Jonathan Ferry**, Biomedical Sciences major with ASBMB concentration, Microbiology major, Biochemistry major, and Biomedical Engineering, Chemistry and Molecular Biology minors  
 Thesis title:  
 Thesis adviser: ,
- Emily Fitzjohn**, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration and Statistics minor  
 Thesis title: *Pagosa Skyrocket Distance Sampling*  
 Thesis adviser: Robert Schorr, Colorado Natural Heritage Program
- Natalie Fitzpatrick**, Ecosystem Science and Sustainability major  
 Thesis title: *Local Food Production & Connecting Community*  
 Thesis adviser: ,
- Aspen Flores**, Journalism and Media Communications major and Spanish minor  
 Thesis title: *Students Come First - The Journey of CSU's First-Generation Students In The Honors Program*  
 Thesis adviser: Steven Weiss, Journalism and Media Communication

**Paige Fortunati**, Microbiology major and Chemistry minor

Thesis title: *The Feeding Ecology of the Gastrointestinal Tract in Wild Canids and Pinnipeds*

Thesis adviser: Ashley McGrew, Microbiology, Immunology and Pathology

**Jayden Frable**, International Studies major with Latin American Studies and European Studies concentrations and Spanish minor

Thesis title: *Edification of Exploitation: The Ethical Implications of Short Term Missions*

Thesis adviser: Allison White, Political Science

**Christopher Fueg**, Electrical Engineering major with Electrical Engineering concentration and Computer Science minor

Thesis title: *Avionic Systems for the CSU Engineering Intercollegiate Rocket*

Thesis adviser: Stephen Guzik, Mechanical Engnr

**Matthew Funk**, Biochemistry major with General Biochemistry concentration and Creative Writing and Computer Science minors

Thesis title: *Chromatin Architecture in H3 and H4 Tailless Octamers*

Thesis adviser: Jeffrey Hansen, Biochemistry and Molecular Biology

**Lindsey Garchar**, Social Work major and Languages, Literatures and Cultures major with Spanish concentration

Thesis title: *Municipal Composting: Proposed Best Practices for Fort Collins, CO*

Thesis adviser: Anne Marie Merline, Honors Program

**Jacob Garrels**, Business Administration major with Marketing concentration, Sports Management minor and Market Research and Data Analytics and Marketing Communication and Branding and Customer Experience Management certificates

Thesis title: *Examination of Culture Influences on Attendance for Sports Organizations*

Thesis adviser: D Todd Donovan, Marketing

**Heidi Gilbert**, Mathematics major with General Mathematics concentration

Thesis title: *An Exploration of Inequities in Undergraduate Mathematics Education*

Thesis adviser: Elizabeth Arnold, Mathematics

**Elizabeth Gilchrist**, Human Development and Family Studies major with Leadership and Entrepreneurial Professions concentration and Political Science major with U.S. Government, Law and Policy concentration

Thesis title: *Backcountry Skiing in Summit County for the Novice: Precautions, Restrictions, and Suggestions*

Thesis adviser: Pamela Vaughan Knaus, Honors Program

**Shlok Gondalia**, Computer Science major with Computer Science concentration and Mathematics minor

Thesis title: *ML-Based Honors Chatbot for Frequently Asked Questions*

Thesis adviser: Supto Ghosh, Computer Science

**Marisa Granados**, Ecosystem Science and Sustainability major and Botany minor

Thesis title: *Perception vs. Experimentation: Do CSU's Ecosystem Science and Sustainability Students' Perceptions on Their Sustainability Education Align With What the Literature Recommends*

Thesis adviser: Monique Rocca, Ecosystem Science and Sustainability

**Aimee Grech**, Business Administration major with Accounting concentration

Thesis title: *Elizabeth Holmes: Evaluating the Role of Masculine Traits on Women in Business*

Thesis adviser: Margarita Lenk, Accounting

**Cabe Green**, Health and Exercise Science with Sports Medicine concentration

Thesis title: *Injury Prevention and Rehabilitation for First Responders*

Thesis adviser: Tiffany Lipsey, Dept Hlth & Exer Sci

**Ethan Green**, Chemical and Biological Engineering major and Spanish minor

Thesis title: *Photosynthetic Production of Ethylene*

Thesis adviser: Kenneth Reardon, Chemical Engineering

**Leora Greene**, Psychology major with General Psychology concentration and Political Science and American Sign Language minors

Thesis title: *Antisemitism and its Impact on Jewish College Students' Mental Health*

Thesis adviser: Ernest Chavez, Psychology

**Krista Grossmann**, Civil Engineering major

Thesis title: *Pier Design for Highland Lake in Mead, Colorado*

Thesis adviser: Christopher Thornton, Civil Engineering

**Emily Grubb**, Human Development and Family Studies major with Leadership and Entrepreneurial Professions concentration and Business Administration minor

Thesis title: *Toxic Masculinity: Gaining a Better Understanding for the Detrimental Effects of Societal Influence of Men*

Thesis adviser: John Kitchens, Honors Program

**Camryn Guenther**, Biochemistry major with Health and Medical Sciences concentration and Molecular Biology and Chemistry minors

Thesis title: *Investigating the Role of Phospholipase A2 and Arachidonic Acid in a Dengue Virus Serotype 2 Infection*

Thesis adviser: Rushika Perera, Microbiology, Immunology and Pathology

**Camryn Guenther**, Biochemistry major with Health and Medical Sciences concentration and Chemistry and Molecular Biology minors

Thesis title: *Investigating the Role of Phospholipase A2 and Arachidonic Acid in a Dengue Virus Serotype 2 Infection*

Thesis adviser: Rushika Perera, Microbiology, Immunology and Pathology

**Alice Gugel**, Biomedical Sciences major and French minor

Thesis title: *A Creative & Bilingual View Into the Human Cardiovascular System*

Thesis adviser: Adam Chicco, Biomedical Sciences

**Sophia Gugel**, Biomedical Sciences major and French minor

Thesis title: *Exploring the Human Cardiopulmonary System in English and French*

Thesis adviser: Ryan Maresh, Biomedical Sciences

**Ryan Guidice**, Computer Engineering major and Computer Science minor

Thesis title: *Electric Go-Kart (ECE Senior Design Project)*

Thesis adviser: Olivera Notaros, Elec & Comp Engr

**Elaina Haas**, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration

Thesis title: *Investigating Avian Migration Patterns as it is Recorded Across Radar Ecology Data and Citizen Science Platforms*

Thesis adviser: Kyle Horton, Fish, Wildlife and Conservation Biology

**Autumn Haase**, History major with Digital and Public History concentration and Religious Studies minor and Museum and Cultural Heritage Studies certificate

Thesis title: *Body Modifications in the Ancient Mediterranean*

Thesis adviser: Kristin Heineman, History

**Greer Hagerman**, Journalism and Media Communications major and Sports Management minor

Thesis title: *Ethical Values that Guide Influencer Marketing and How Consumers Attitudes are Impacted*

Thesis adviser: Marilee Long, Journalism Media Comm

**Sevi Harden**, Health and Exercise Science with Sports Medicine concentration

Thesis title: *The Pressures of Greatness: An Investigation Into Behavioral Health Disorders Among Athletes*

Thesis adviser: Brian Butki, Health and Exercise Science

**Brooke Harris**, Biochemistry major with Health and Medical Sciences concentration

Thesis title: *Mechanisms of kinetochore-microtubule attachments and the implications of incorrect attachments on cancer*

Thesis adviser: Jennifer DeLuca, Biochem Molec Bio

**Gregory Hassler**, ecosystem Science and Sustainability major and Spanish minor

Thesis title: *Promoting Waterwise Landscapes in Cities Along the Front Range*

Thesis adviser: Anne Marie Merline, Honors Program

**Hannah Hatheway**, Natural Resources Management and Ecological Restoration minor and Youth Mentoring with Campus Connect certificate

Thesis title: *Trick or Treat: Pre-Fire Treatments and Burn Severity (tentative)*

Thesis adviser: Camille Stevens-Rumann, Forest & Rangeland Stewardship

**Taylor Heap**, Biomedical Sciences major

Thesis title: *Development of an Educational Support Brochure for Intersex Individuals and Families*

Thesis adviser: Quint Winger, Biomedical Sciences

**Konrad Hendley**, Business Administration with Information Systems concentration

Thesis title: *Financial planning web application for college students*

Thesis adviser: Ramadan Abdunabi, Computer Info Syst

**Maximilian Henneke**, Neuroscience major with Cell and Molecular Neuroscience concentration and Computer Science minor

Thesis title: *Age based classification of rsfMRI data by convolutional neural networks*

Thesis adviser: Michael Thomas, Psychology

**Aspen Hensley**, Political Science major and Sociology major with General Sociology concentration and Legal Studies minor

Thesis title: *Social Media: Vehicle for Democracy or Deception?*

Thesis adviser: Dominik Stecula, Political Science

**Jack Hermanson**, Applied Computing Technology major with Computing Technology concentration and Business Administration major with Information Systems concentration and Spanish minor

Thesis title: *Full-Stack Development of a Web Application using TypeScript, NodeJS, and React*

Thesis adviser: Christina Serrano, Computer Info Syst

**Luisanna Hernandez Jeppesen**, Microbiology major, Zoology major and Chemistry minor

Thesis title: *Characterization of Crustacean Hyperglycemic Hormone (CHH) Superfamily Receptors in the Blackback Land Crab (Gecarcinus lateralis)*

Thesis adviser: Donald Mykles, University Honors Program

**Ashley Herrera**, Human Development and Family Studies major with Prevention and Intervention Science concentration

Thesis title: *"The Expensive To Be Poor": The Cost of Being Low Socioeconomic Status*

Thesis adviser: David MacPhee, Human Development and Family Studies

**Colin Hill**, Chemical and Biological Engineering major and Mathematics minor

Thesis title: *Slow Release Polymer Purification*

Thesis adviser: Minerva Piffarero, Chemical Engineering

**Sarah Hinman**, Biochemistry major and Health and Medical Sciences concentration with Biomedical Sciences minor

Thesis title: *Gene therapy as a potential treatment for canine dilated cardiomyopathies.*

Thesis adviser: Aaron Sholders, Biochem Molec Bio

**Adam Hodgson**, Business Administration major with Finance concentration and Economics major

Thesis title: *The Cost of Slowing Climate Change, and Why Some Aren't Willing to Pay*

Thesis adviser: Terrence Iverson, Economics

**Madeline Hodgson**, Anthropology major with Archeology concentration

Thesis title: *Colorado Bound: Raw Materials and Migration Patterns in Colorado's Rawah Wilderness*

Thesis adviser: Jason La Belle, Anthropology and Geography

**Zoe Holderied**, Chemical and Biological Engineering major

Thesis title: *Algal Oil for Fuels: Open Pond*

Thesis adviser: Travis Bailey, Chemical Engineering

**Caleb Horan**, Mechanical Engineering major

Thesis title: *The Design and Deployment of a Novel Molten Salt Neutron Imaging Furnace*

Thesis adviser: Azer Yalin, Mechanical Engr

**Lauren Houdesheldt**, Environmental Health major

Thesis title: *Combating the Spread of Zoonotic Diseases*

Thesis adviser: Judy Heiderscheidt, Environmental and Radiological Health Sciences

**Alexandra Hunter**, Business Administration major with Finance concentration and Entrepreneurship certificate

Thesis title: *Financing Alternatives for Sustainable Public-Private Partnership Participation in Low-Income Housing*

Thesis adviser: Ellen Burnes, Finance and Real Estate

**Haley Hurdle**, Animal Science major and Agricultural Business minor

Thesis title: *Evaluation of Mare's Estrus Cycles After Treatment*

Thesis adviser: Jason Bruemmer, Animal Sciences

**Fiona Hynes**, Ecosystem Science and Sustainability major

Thesis title: *Recommendations for the CO Wolf Reintroduction Plan*

Thesis adviser: Rebecca Niemiec, Human Dimensions of Natural Resources

**Anna Iripino**, Landscape Architecture major and Global Environmental Sustainability minor

Thesis title: *A Walk to Remember*

Thesis adviser: Bradley Goetz, Horticulture & Landscape Arch

- Cheyenne Izon**, Biomedical Sciences major and Chemistry and Leadership Studies minors  
 Thesis title: *Seasonal cold prevents obesity-related glucose intolerance in golden-mantled ground squirrels*  
 Thesis adviser: Adam Chicco, Biomedical Sciences
- Kade Jackson**, Fish, Wildlife and Conservation Biology major with Fisheries and Aquatic Sciences concentration  
 Thesis title: *Prey selection of diploid and triploid Walleye in a low productivity system*  
 Thesis adviser: Brett Johnson, Fish Wldlf & Conservation Bio
- Rachel Jackson**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Botany minor  
 Thesis title: *Assessing Physiological Vulnerability to Climate Change in Two Amphibian Species*  
 Thesis adviser: Chris Funk, Biology
- Olivia Johnson**, Human Development and Family Studies with Pre-Health Professions concentration and American Sign Language minor  
 Thesis title: *Sex Education in America and its Impacts on Deaf Individuals*  
 Thesis adviser: Susan Hepburn, Human Development and Family Studies
- Casey Johnston**, Environmental Engineering major  
 Thesis title: *Alternative Energy Analysis for Green River Diversion Project*  
 Thesis adviser: Christopher Thornton, Civil Engineering
- Gabriella Jones**, International Studies major with Middle East and North African Studies concentration, Sociology major with General Sociology concentration and Legal Studies and Arabic Studies minors  
 Thesis title: *"How Sharia Law and the Tradition of Muslim Jurisprudence Have Leveraged Cultural Relativism in Defense of its Traditional Practices" - "To What Extent Should International Law Accept the Defense of Traditional Practices on Culturally-Relativist Grounds?"*  
 Thesis adviser: Allison White, Political Science
- Thomas Joy**, Zoology major  
 Thesis title: *Endangered Cats and Savage Indians: Why Mascot Choices Must Be Carefully Considered*  
 Thesis adviser: Sarah Zwick-Tapley, University Honors Program
- Swati Jujare**, Biomedical Sciences major and Chemistry minor  
 Thesis title: *Analysis of Metabolic Defects Caused by Barth Syndrome and the Testing of Novel Therapeutics*  
 Thesis adviser: Adam Chicco, Biomedical Sciences
- Hannah Kaiser**, Psychology major with Industrial/Organization Psychology concentration and Business Administration minor  
 Thesis title: *Success in Diversity and Inclusion: How Can A Business Foster an Inclusive Culture?*  
 Thesis adviser: Alyssa Gibbons, Psychology
- Sydney Kelly**, Chemistry major with ACS concentration and Mathematics and Biomedical Sciences minors  
 Thesis title: *Antibiotic Resistant Staphylococcus Aureus: A Research Synthesis*  
 Thesis adviser: Doreene Hyatt, Microbiology, Immunology and Pathology
- Keelan Kenny**, Biomedical Sciences major, Environmental Health major, Spanish minor and Spanish for Animal Health Care certificate  
 Thesis title: *An Analysis of the Course "Sustainability In Our Lives"*  
 Thesis adviser: Anne Marie Merline, Honors Program
- Adam Kiehl**, Data Science major with Statistics concentration and Mathematics minor  
 Thesis title: *Inference on Hippocampal Connectivity Using Multi-Trial Count-Valued Time Series*  
 Thesis adviser: Aaron Nielsen, Statistics
- Julia King**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and Chemistry minor  
 Thesis title: *Literary review of current methods of CTE diagnosis and perspectives on treatment*  
 Thesis adviser: Brett Fling, Health and Exercise Science
- Kimberly King**, Biomedical Engineering with Mechanical Engineering major  
 Thesis title: *Augmented Reality Ultrasound with Echogenic Needle*  
 Thesis adviser: Stuart Tobet, Biomedical Sciences
- William Kleisner**, Political Science major and Legal Studies minor  
 Thesis title: *Separate and Unequal: The Impact of de facto/de jure Segregation and Gentrification on the Development of Communities of Color*  
 Thesis adviser: Courtenay Daum, Political Science

- Gwyneth Knott**, Biochemistry major with ASBMB cocentration and Chemistry minor  
Thesis title: *Analyzing the effect of primary lung fibroblasts on chemosensitivity in triple-negative and luminal breast cancer cells*  
Thesis adviser: Daniel Regan, Mcrblgy, Immnlgy & Pthlgy
- Amber Koch**, Chemical and Biological Engineering major  
Thesis title: *Fruit Of The Earth: Biofuel Feedstocks & The Petroleum Legacy They Displace*  
Thesis adviser: Courtney Jahn, Agricultural Biology
- Audrey Koenig**, Political Science major with Environmental Politics and Policy concentration and Ethnic Studies and Legal Studies minors  
Thesis title: *Seed Sovereignty in Fort Collins and Northern Colorado: Implementing a seed library through Poudre River Public Library District*  
Thesis adviser: Anne Merline, University Honors Program
- Marin Konopelski**, Biomedical Sciences major  
Thesis title: *A Guidebook for Taking Prescribed Medications Safely*  
Thesis adviser: Kimberly Jeckel, Biomedical Sciences
- London Kubicek**, Mechanical Engineering major with Aerospace Engineering concentration  
Thesis title: *Shock Absorber Efficiency*  
Thesis adviser: Bert Vermeulen, Dean of Engineering
- Alison Kuderka**, Animal Science major and Agricultural Business minor  
Thesis title: *Specified Medicine in the Dairy Industry*  
Thesis adviser: Noa Roman-Muniz, Animal Sciences
- Wyatt Kuper**, Biomedical Sciences major  
Thesis title: *Short Term Impacts of Therapy Animals in Assisted Living Communities*  
Thesis adviser: Kerri Rodriguez, Social Work
- Elizabeth Lacey**, Civil Engineering major  
Thesis title: *Design and Fabrication of a Model Steel Bridge*  
Thesis adviser: Paul Heyliger, Civil Engineering
- Christopher Lahey**, Business Administration major with Supply Chain Management concentration and Information Technology for Business Professionals certificate  
Thesis title: *Risk Mitigation: Onshoring Semiconductor Chip Production*  
Thesis adviser: Zac Rogers, Management
- Mackenzie Larrenaga**, Political Science major with Global Politics and Policy concentration and Spanish and Legal Studies minors  
Thesis title: *Dobbs v. Jackson Women's Health Organization Amicus Curiae Brief*  
Thesis adviser: Courtenay Daum, Political Science
- Allie Lawler**, Ecosystem Science and Sustainability major and Environmental Affairs minor  
Thesis title: *Attitudes and Beliefs Regarding Rare Earth Metal Mining in Jiangxi, China*  
Thesis adviser: Robin Rothfeder, Forest and Rangeland Stewardship
- Andre Leautaud**, Mathematics major with General Mathematics concentration and Computer Science major with Artificial Intelligence and Machiner Learning concentration  
Thesis title: *Analyzing the Use of Self-Attention to Predict Transcription Factor Binding Sites*  
Thesis adviser: Asa Ben-hur, Computer Science
- Eliana Lee**, English major with English Education concentration  
Thesis title: *Shrews, Virgins, and Whores: Female Representation in Classical Literature*  
Thesis adviser: Lynn Shutters, English
- Katrina Leibee**, Journalism and Media Communications major with U.S. Government, Law and Policy and Political Science major  
Thesis title: *The Development of the Music Profile: Targeting the Components of the Music Profile*  
Thesis adviser: Michelle Ancell, Journalism and Media Communication
- Devon Leimkuhl**, Chemistry major with ACS concentration and Global Environmental Sustainability minor  
Thesis title: *Synthesis of Nanoparticle Materials for Use in Photovoltaic Cells: Exploring Reaction Pathways and Applications of Reactions to New Materials Using Cu,PSe, as a Basis*  
Thesis adviser: Amy Prieto, Chemistry

**Ryan Lencke**, Business Administration major with Marketing concentration and Entrepreneurship and Innovation minor

Thesis title: *How Buyer Behavior is Influenced by Sustainability*

Thesis adviser: Elizabeth Webb, Marketing

**Daniela Leopardi**, Biological Science major with Biological Science concentration

Thesis title: *Cadaver Usage as an Effective Learning Tool*

Thesis adviser: Christianne Magee, Biomedical Sciences

**Hannah Lewin**, Biomedical Sciences major and General Sociology minor

Thesis title: *Impact of Diet and Exercise on Circadian Clock Rhythms in Human Muscle*

Thesis adviser: Josiane Broussard, Health and Exercise Science

**Natalie Liberati**, Zoology major and Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Spanish minor

Thesis title: *The Use of Hydrothermal Vents by Skate Species *Bathyraja Spinosissima**

Thesis adviser: Shane Kanatous, Biology

**Jared Licht**, Civil Engineering major

Thesis title: *Loveland Fire Station #10 Structural Design*

Thesis adviser: Christopher Thornton, Civil Engineering

**Carmen Lighthiser**, Economics major and Merchandising minor

Thesis title: *Reversing the Cycle: An Evaluation of Fashion Waste Through Up-Cycling*

Thesis adviser: Anne Merline, University Honors Program

**Lauren Linderer**, Biological Science major with Biological Science concentration and Business Administration minor

Thesis title: *An Educational Presentation on Chronic Asthma for Primary School Teachers*

Thesis adviser: Kimberly Jeckel, Biomedical Sciences

**Eryn Lum**, Civil Engineering major

Thesis title: *Colorado State University Steel Bridge Team*

Thesis adviser: Gaofeng Jia, Civil Engineering

**Hayley Ma**, Chemical and Biological Engineering major

Thesis title: *Investigation and Optimization of Trans-Cinnamic Acid Production in *E. coli* for Conventional Chemicals and Fuels*

Thesis adviser: Christie Peebles, Chemical Engineering

**Scott Maclean**, Chemical and Biological Engineering major and Biomedical Engineering minor

Thesis title: *Integrating Public Health into Primary Care Clinics to Improve Health Outcomes as Demonstrated by COVID-19 Vaccine Equity*

Thesis adviser: Howard Miller, Economics

**Jesus Madrigal Garcia**, Political Science major, History major with General History concentration and Legal Studies minor

Thesis title: *Politicizing the Death Penalty*

Thesis adviser: Eric Fattor, Political Science

**Jaylin Mandley**, Neuroscience major with Cell and Molecular Neuroscience concentration

Thesis title: *Manipulation of Recombination-dependent DNA Replication in *Thermococcus kodakarensis**

Thesis adviser: Thomas Santangelo, Biochem Molec Bio

**Alyssa Martinez**, Biomedical Sciences major

Thesis title: *Inspired Activism: The Relationship Between Nationalist Ideas Produced By World War II and 9/11, And A Surge In Activism Among Youth*

Thesis adviser: Derek Everett, History

**Sarah Martinez**, Mechanical Engineering major and Engineering Science major with Teacher Education concentration

Thesis title: *Special Needs Playground, Senior Design Personal Reflection and Individual Contributions*

Thesis adviser: Bonnie Roberts, Mechanical Engineering

**Makaya Mason-Jones**, Chemistry major with ACS certification

Thesis title: *Fort Collins' First Interactive Chemistry Themed Bar*

Thesis adviser: Joseph DiVerdi, Chemistry

- Izabella Mastroianni**, Biochemistry major with ASBMB cocentration and Spanish and Chemistry minors  
Thesis title: *Exploring ELT-2's Role in the Caenorhabditis elegans Intestine and the Effects of Pseudomonas aeruginosa on Intestine Gene Expression*  
Thesis adviser: Erin Nishimura, Biochem Molec Bio
- Tierra Mathews**, Animal Science major and Agricultural Business and Chemistry minors  
Thesis title: *Effects of Direct Fed Microbials on Ruminant Digestion: An In Vitro Experiment*  
Thesis adviser: Terry Engle, Animal Sciences
- Sophie Matthews**, Human Development and Family Studies with Early Childhood Professions concentration and Spanish minor  
Thesis title: *CSU as a Hispanic Serving Institution - Where We Are and Where We Can Go*  
Thesis adviser: Andrea Purdy, Languages, Literatures and Cultures
- Audrey Mayer**, Sociology major with Criminology and Criminal Justice concentration and Legal Studies minor  
Thesis title: *Veteran and Active Duty Suicide Awareness: Shaping Suicide Prevention Curriculum For The Military's Next Generation of Leaders*  
Thesis adviser: Lorann Stallones, Psychology
- Noelle Mayer**, Biological Science major with Biological Science concentration and Leadership Studies minor  
Thesis title: *A phenomenology-based qualitative study: Consciously identified themes of trust and distrust in science communication among a small group of Colorado State University students*  
Thesis adviser: Jennifer Neuwald, Biology
- Madison Mayle**, Communication Studies major and Media Studies minor  
Thesis title: *What Social Media Influencers Are Really Influencing: An Analysis of Kim Kardashian's Instagram*  
Thesis adviser: Elinor Light, Communication Studies
- Haley Mayr**, Business Administration major with Finance and Marketing concentrations and Marketing Communication and Branding and Market Research and Data Analytics certificates  
Thesis title: *Chateau Venue Business Proposal*  
Thesis adviser: Kipp Krukowski, Management
- Krista McAllister**, Communication Studies major and Music, Stage and Sports Production minor  
Thesis title: *Conflict in Romantic Relationships: Finding Success in Relationships by Managing and Matching Conflict Styles*  
Thesis adviser: Meara Faw, Communication Studies
- Megan McCarthy**, Business Administration major with Marketing concentration and Natural Resource Tourism with Natural Resource Tourism concentration  
Thesis title: *The Intersection of Climate Change and the Ski Industry: Actions and Adaptations Taken*  
Thesis adviser: Sunshine Swetnam, Hmn Dim Ntrl Rsrc
- Gunner McEntee**, History major with Social Studies Teaching concentration  
Thesis title: *Where the Earth Meets the Stars: Devils Tower*  
Thesis adviser: Nicole Vieira, Honors Program
- Kate McKnight**, Neuroscience major with Cell and Molecular Neuroscience concentration  
Thesis title: *Substance use and bouldering: An analysis of alcohol and marijuana use in people who boulder*  
Thesis adviser: Bradley Conner, Psychology
- Kenna Meier**, Biological Science major with Biological Science concentration  
Thesis title: *Examining Living Situations throughout the Progression of Cognitive Decline and Dementia*  
Thesis adviser: Allyson Brothers, Human Dev & Fam Stds
- Amy Meredith**, Communication Studies major and Global Environmental Sustainability minor  
Thesis title: *Designing a Deliberative Forum Guide: Plastic Pollution*  
Thesis adviser: S Mahoney, Sociology
- Jake Mismas**, Business Administration with Marketing concentration and Computer Science major with Computer Science concentration and Market Research and Data Analytics certificate  
Thesis title: *Dispelling the Magic of Acquisition: Identifying Key Factors of a Successful Technology Startup Acquisition*  
Thesis adviser: Kipp Krukowski, Management

**Natalie Montecino**, International Studies with Asian Studies concentration and Political Science, French, Japanese and International Development minors

Thesis title: *Rural Identities and Sustainability in France and Japan: A Comparative Study*

Thesis adviser: Andrea Duffy, College of Liberal Arts

**Jaelyn Montgomery**, Biomedical Sciences major

Thesis title: *The Case of the Girl and Her Mysterious Leg Pain: A CRPS Case Study*

Thesis adviser: Russ Anthony, Biomedical Sciences

**Aspen Moon**, Sociology major with Criminology and Criminal Justice concentration and Legal Studies and Women's Studies minors

Thesis title: *Queer (mis)Representation in Film*

Thesis adviser: Thomas Dunn, Communication Studies

**Jenna Moore**, Music major with Performance concentration and Arts Leadership and Administration minor

Thesis title: *Study Abroad Program Proposal: Music in Italy*

Thesis adviser: Michelle LaQuatra, School of Music Theatre Dance

**Andrea Morales Dubon**, Business Administration with Organization and Innovation Management and International Business concentrations

Thesis title: *The Great Resignation: A Look At Current Voluntary Turnover Tendencies And Its Impact On The Retail And Hospitality Industry*

Thesis adviser:

Elizabeth Webb, Marketing

**Scott Morgan**, Chemical and Biological Engineering major

Thesis title: *Blueberry Polyphenol Project*

Thesis adviser: Charlene Van Buiten, Food Science and Human Nutrition

**Laura Moritz**, Communication Studies major and Leadership Studies minor

Thesis title: *The Use and Impact of Deliberative Pedagogical Skills Amongst Post-Graduate Leaders of Colorado State University's Center for Public Deliberation*

Thesis adviser: Katherine Knobloch, Communication Studies

**Emily Morton**, Fish, Wildlife & Conservation Biology major with Conservation Biology concentration and Music major with Performance concentration and Zoology minor

Thesis title: *Analysis of Needs and Resources Regarding the Creation of a Naturalist and Stewardship Program for Colorado Extension*

Thesis adviser: Thomas Davis, Forest Rnglnd Stwdshp

**Courtney Mroczenski**, Social Work major and Gerontology and Statistics minors

Thesis title: *Salama. Shalom. Eirene. Peace.*

Thesis adviser: Pamela Vaughan Knaus, Honors Program

**Alexys Murillo**, Psychology major with Clinical/Counseling Psychology concentration

Thesis title: *Relationships Between Socioeconomic Status and Stress Reactivity*

Thesis adviser: Gloria Luong, Human Dev & Fam Stds

**Jacey Murphy**, Zoology major and Equine Science major

Thesis title: *How Equine Athletics Have Driven the Technologies Behind the Booming Equine Industry*

Thesis adviser: Jennifer Hatzel, Clinical Sciences

**Jessica Nelson**, Biomedical Sciences major

Thesis title: *The Happy Heart: A Cardiovascular Health Book for Kids*

Thesis adviser: Ryan Maresh, Biomedical Sciences

**Abbie Neuman**, Health and Exercise Science with Sports Medicine concentration and Spanish minor

Thesis title: *Military Brats: A Memoir of an Air Force Family*

Thesis adviser: Richard Perry, Dept Hlth & Exer Sci

**Corinne Neustadter**, Political Science major with Environmental Politics and Policy concentration and History major with Digital and Public History concentration

Thesis title: *North America's Switzerland: Comparing the Histories of Banff and Rocky Mountain National Parks*

Thesis adviser: Douglas Sheflin, History

**Kate Nielsen**, Biological Science major with Biological Science concentration

Thesis title: *The Effects of Hormone Therapy in a Clinical Setting and in the Physical World: An Investigative and Informative Study*

Thesis adviser: Stuart Tobet, Biomedical Sciences

- Shelby Norris**, Interior Architecture and Design major  
 Thesis title: *Design and Efficiency of On-Campus Lab Design*  
 Thesis adviser: Leah Scolere, Design and Merchandising
- Thomas Oates**, Health and Exercise Science with Sports Medicine concentration  
 Thesis title: *Aerobic Exercise and Down Syndrome: Supports, Limitations, and Benefits to Participation in Aerobic Exercise Among Individuals with Trisomy 21*  
 Thesis adviser: Richard Perry, Dept Hlth & Exer Sci
- Shelby Oke**, Biomedical Engineering with Mechanical Engineering major  
 Thesis title: *Applied Medical Surgical Simulation Team (BIOM 486 Capstone Project)*  
 Thesis adviser: Ellen Brennan-Pierce, Dean of Engineering
- Jason Oki**, Biomedical Sciences major and Animal Science major and Agricultural Business minor  
 Thesis title: *Analysis of the Repercussions of Initiate 16 in Colorado*  
 Thesis adviser: Brett Kirch, Animal Sciences
- Nanci Orgill**, Human Dimensions of Natural Resources major and Environmental Affairs minor  
 Thesis title: *The Role of Public Deliberation in Local Climate Governance*  
 Thesis adviser: Martin Carcasson, Communication Studies
- Alyssa Padilla**, Biomedical Sciences major  
 Thesis title: *A Review of the SMYD Family of Lysine Methyltransferases*  
 Thesis adviser: Mark Brown, Clinical Sciences
- Alexandra Palma**, Mechanical Engineering major and Business Administration minor  
 Thesis title: *Automated Medicinal Bait Delivery System*  
 Thesis adviser: Wade Troxell, Mechanical Engr
- Rhiannon Palone**, Communication Studies major and Business Administration minor  
 Thesis title: *Relational Dialectical Theory and Family: An Assessment of Adult-Children in Estranged/Distanced Relationships*  
 Thesis adviser: Eric Aoki, Communication Studies
- Jason Pang**, Electrical Engineering major with Electrical Engineering concentration and Real Estate minor  
 Thesis title: *Development of Gate Drivers for High-Powered Laser Lamp Pulsers*  
 Thesis adviser: Fernando Tomasel, Elec & Comp Engr
- Charlotte Pardo**, Liberal Arts major and History and Legal Studies minors  
 Thesis title: *Herspectives: An Analysis Of Legal Perspectives On American Feminist Jurisprudence*  
 Thesis adviser: Courtenay Daum, Political Science
- Ashley Parra Lopez**, Social Work major and Ethnic Studies minor  
 Thesis title: *Strengthening Student-Teacher Relationships: Cultivating Culturally Sound and Safe Learning Spaces for Black, Indigenous, and Youth of Color*  
 Thesis adviser: Tiffany Jones, School of Social Work
- Brielle Patlin**, Neuroscience major with Cell and Molecular Neuroscience concentration  
 Thesis title: *Neuronal Innervation and Immune Presence in an Organotypic Lung Slice Model*  
 Thesis adviser: Stuart Tobet, Biomedical Sciences
- Ayaka Paul**, Fish, Wildlife & Conservation Biology major with Conservation Biology concentration and Biological Science major with Biological Science concentration  
 Thesis title: *Characterization and Expression of Leucine-Rich Repeat-Containing G Protein-Coupled Receptor (LGR) in *Gecarcinus lateralis**  
 Thesis adviser: Donald Mykles, University Honors Program
- Emma Perrell**, Biological Science major with Biological Science concentration and Chemistry minor  
 Thesis title: *University Students' Knowledge and Opinions on Civil Asset Forfeiture*  
 Thesis adviser: Michael Hogan, Sociology
- John Perry**, History major with General History concentration and Political Science major with Environmental Politics and Policy concentration and Environmental Affairs and Mathematics minors  
 Thesis title: *Environmental Protection: Limiting Accessibility in Late 19th Century and Early 20th Century America*  
 Thesis adviser: Douglas Sheflin, History
- Brynn Peters**, Business Administration major with Organization and Innovation Management and International Business concentrations and Leadership in Organizations certificate  
 Thesis title: *An Entrepreneurial Mindset: Designing & Implementing a Faith-Based Wellness Retreat*  
 Thesis adviser: Susan Golicic, Management

**Hendrik Peters**, Biological Science major with Biological Science concentration and Chemistry minor  
Thesis title: *The Rights of the Cache la Poudre*  
Thesis adviser: Nathan Poff, Biology

**Lisa Pitsch**, Psychology major with General Psychology concentration and Equine Science major and Business Administration minor  
Thesis title: *Equine Assisted Activities: Business Plan, Facility Layout, and Benefits*  
Thesis adviser: Sharon Butler, Animal Sciences

**Dustin Pokorny**, Journalism and Media Communications major and Legal Studies and Sports Management minors  
Thesis title: *Can the Government Force Private Corporations Such as the Formerly Named Washington Redskins to Change Their Inappropriate Names?*  
Thesis adviser: Justin Wolfgang, Journalism Media Comm

**Caleb Posey**, Business Administration major with Finance concentration and Economics major and Leadership Studies minor  
Thesis title: *Social Movement Activity's Effect on the Stock Market: The Correlation Between Twitter and the VIX*  
Thesis adviser: Jennifer Coats, Finance and Real Estate

**Emily Potter**, Psychology major with Clinical/Counseling Psychology concentration and Youth Mentoring with Campus Connect certificate  
Thesis title: *Depictions of Mental Illness Throughout Art History*  
Thesis adviser: Karla Gingerich, Psychology

**Jacob Powell**, Biomedical Sciences major  
Thesis title: *A Study On The Mental Health Crisis In The Field Of Veterinary Medicine*  
Thesis adviser: Christianne Magee, Biomedical Sciences

**Eliana Pritchett**, Political Science major and Journalism and Media Communication major  
Thesis title: *Evolving Media Effects: climate change coverage and intermedia agenda setting*  
Thesis adviser: Michael Humphrey, Journalism Media Comm

**Noah Probst**, Mechanical Engineering with Aerospace Engineering concentration and Mathematics minor  
Thesis title: *Design and Testing of Liquid Bi-Propellant Rocket Motor*  
Thesis adviser: Walter Thompson, Mechanical Engineering

**Matthew Raiche**, Chemical and Biological Engineering and Chemistry and Mathematics minors  
Thesis title: *Production of Ethylene via Photosynthesis*  
Thesis adviser: Kenneth Reardon, Chemical Engineering

**Raj Rambhajan**, Environmental Horticulture major with Landscape Design and Contracting concentration  
Thesis title: *Formal Proposal of the Future of Colorado Landscapes*  
Thesis adviser: Zachary Johnson, Horticulture & Landscape Arch

**Kyle Randal**, Theatre major with Performance concentration  
Thesis title: *The Man from Austin - A One-Man, Autobiographical Play by Kyle Randal*  
Thesis adviser: Noah Racey, School of Music, Theatre and Dance

**Lana Razma**, Health and Exercise Science with Sports Medicine concentration  
Thesis title: *The Pathophysiology of Vascular Cognitive Impairment*  
Thesis adviser: Neha Lodha, Dept Hlth & Exer Sci

**Kaitlin Reed**, Neuroscience major Behavioral and Cognitive Neuroscience concentration  
Thesis title: *Drosophila Melanogaster: A Genetic Model for Studying the Role of Synaptotagmin at the Neuromuscular Junction*  
Thesis adviser: Noreen Reist, Biomedical Sciences

**Carter Reiter**, Biochemistry major with ASBMB cocentration and Chemistry minor  
Thesis title: *Applying mRNA Vaccine Technology to Cancer Vaccines*  
Thesis adviser: Brian Kalet, Biochem Molec Bio

**Robert Reiter**, Business Administration major with Marketing concentration and Technical and Scientific Communication minor and Market Research and Data Analytics certificate  
Thesis title: *Effects of Behavioral Biases on Financial Decision Making and Consumer Behavior*  
Thesis adviser: Gina Slejko, Marketing

**Natalie Renfrew**, Business Administration major with Organization and Innovation Management concentration  
Thesis title: *Nat Creates*  
Thesis adviser: John Mitchell, Management

- Abigail Richard**, Neuroscience major Behavioral and Cognitive Neuroscience concentration and Chemistry minor  
Thesis title: *Adaptive Yoga Intervention- Changes in Mind-Body Connection and Functional Connectivity in Participants with Acquired Brain Injury*  
Thesis adviser: Kalpana Gupta, School of Education
- Joseph Riva**, Computer Science major with Artificial Intelligence and Machine Learning concentration and Mathematics minor  
Thesis title: *Investigating and improving the CRC checksum for TCP*  
Thesis adviser: Craig Partridge, Computer Science
- Jessica Roberts**, Neuroscience major with Cell and Molecular Biology Neuroscience concentration and Spanish minor  
Thesis title: *Selective coactivation of  $\alpha 7$ - and  $\alpha 4\beta 2$ -nicotinic acetylcholine receptors reverses beta-amyloid-induced synaptic dysfunction*  
Thesis adviser: Seonil Kim, Biomedical Sciences
- Lauren Robertson**, Chemical and Biological Engineering and Construction Management minor  
Thesis title: *The individual, Social, and Institutional Barriers Women in STEM Experience and an Investigation in Methods to Dismantle Them*  
Thesis adviser: Margarita Herrera-Alonso, Chemical Engineering
- Peyton Robie**, Health and Exercise Science with Sports Medicine concentration  
Thesis title: *Lilith, The Cancer Cell*  
Thesis adviser: Mark Brown, Clinical Sciences
- John Roesler**, Chemistry major with Non-ACS concentration and Ethnic Studies and Global and Environmental Studies minor  
Thesis title: *Fort Collins Housing Documentary*  
Thesis adviser: Tom Cavanagh, Ethnic Studies
- Joshua Rogers**, Computer Science major with Computer Science concentration and Statistics major  
Thesis title: *Investigations of Natural Gas Leak Indications From Mobile Surveys: Implications For On-The-Ground Surveys and Data Processing*  
Thesis adviser: Zach Weller, Statistics
- James Ross**, Health and Exercise Science with Sports Medicine concentration and Nutrition minor  
Thesis title: *Effectiveness & Specificity of Agility Tests: A Literature Review*  
Thesis adviser: Raoul Reiser, Dept Hlth & Exer Sci
- Brandon Rouault**, Biomedical Engineering with Mechanical Engineering major  
Thesis title: *Sniftek Senior Design*  
Thesis adviser: Bert Vermeulen, Dean of Engineering
- Sidney Ruiz**, Environmental Health major  
Thesis title: *An Evaluation of the Resources Available to Military Families with Special Needs Children*  
Thesis adviser: Judy Heiderscheidt, Environmental and Radiological Health Sciences
- Cierra Ruybal**, Biomedical Sciences major and Chemistry minor  
Thesis title: *Mock Grant Proposal For Control Of Propionibacterium Acnes Through An Anti-Quorum Sensing Approach*  
Thesis adviser: Jennifer McLean, Microbiology, Immunology and Pathology
- Allison Saeger**, Business Administration major with Marketing and Supply Chain Management concentration and Market Research and Data Analytics certificate  
Thesis title: *Improving the Supply Chain for the Food Bank in Larimer County*  
Thesis adviser: John Macdonald, Management
- Nalani Saeks**, Human Development and Family Studies with Prevention and Intervention Science concentration  
Thesis title: *Association Between ADHD Symptoms and Insecure Attachment in Early Adulthood*  
Thesis adviser: Ashley Harvey, Human Development and Family Studies
- Brandon Sandoval**, Horticulture major with Horticultural Science concentration  
Thesis title: *Evaluation of Hemp Volatile Contamination of Grape*  
Thesis adviser: Jessica Prenni, Horticulture & Landscape Arch
- Elizabeth Schieving**, Psychology major with General Psychology concentration  
Thesis title: *The Effect of Music Induced Emotion on Statistical Reasoning*  
Thesis adviser: Jessica Witt, Psychology

- Adrien Schissler**, Chemical and Biological Engineering major  
Thesis title: *Detecting and distinguishing harmful algal blooms (HABs): An investigation into sensory methods and technologies focused towards identifying toxic algae in freshwater ecosystems.*  
Thesis adviser: Steven Simske, Systems Engineering
- Avery Schneider**, Zoology major and English minor  
Thesis title: *Collaboration with Northern Colorado Friends of Ferals to Provide Vaccines in Low Income Areas*  
Thesis adviser: Anne Merline, University Honors Program
- Nicholas Schneider**, Computer Science major with Computer Science concentration  
Thesis title: *Preprocessing Source Code to Reduce False Positives in Static Analysis Tools*  
Thesis adviser: Sudipto Ghosh, Computer Science
- Anna Schwabe**, Equine Science major  
Thesis title: *Mechanical Equine Skeleton*  
Thesis adviser: Stephen Coleman, Animal Sciences
- Casey Shaw**, Biological Science major with Biological Science concentration and Conservation Biology minor  
Thesis title: *Assessing Seasonal And Macrohabitat Variation In Avifaunal Composition Across Great Plains Ecological Systems In The High Plains of Northeast Colorado*  
Thesis adviser: Tanya Dewey, Biology
- Kathryn Sheridan**, Mechanical Engineering major and Global Environmental Sustainability minor  
Thesis title: *NexDraft*  
Thesis adviser: Wade Troxell, Mechanical Engnr
- Jessica Sherwood**, Biomedical Sciences major  
Thesis title: *Loss of cGMP-dependent Protein Kinase II Alters Ultrasonic Vocalizations In Mice, A Model For Speech Impairment in Human Microdeletion 4q21 Syndrome*  
Thesis adviser: Seonil Kim, Biomedical Sciences
- Maya Siegel**, Business Administration major with Marketing concentration and Entrepreneurship and Innovation minor  
Thesis title: *Space to Speak: Creating a Sustainable Business Model*  
Thesis adviser: Kipp Krukowski, Management
- Grace Silicato**, Equine Science major  
Thesis title: *Immunocontraception in Wild Horses*  
Thesis adviser: Jason Bruemmer, Animal Sciences
- Kailey Smith**, Biological Science major with Biological Science concentration  
Thesis title: *You Can't Spell Girl Boss Without Privilege: How Modern Feminism and Catchy Rhetoric Miss the Mark in Addressing Exclusivity and the Long Road Ahead for Feminists Goals*  
Thesis adviser: Vicki Volbrecht, Psychology
- Kambrie Smith**, Biomedical Sciences major  
Thesis title: *Does Inhibition of CDK8/19 Mediator Kinases Have Anti-Inflammatory and Antiproliferative Effects in Canine Cells?*  
Thesis adviser: Douglas Thamm, Clinical Sciences
- Ryan Snell**, Fish, Wildlife and Conservation Biology with Wildlife Biology and Fisheries and Aquatic Sciences concentrations and Spanish minor  
Thesis title: *Impacts of Winter Severity on Mule Deer in Middle Park, Colorado*  
Thesis adviser: David Koons, Fish, Wildlife and Conservation Biology
- Kathleen Snelling**, Geology maor with Geophysics concentration and Mathematics minor  
Thesis title: *After The Fire: A Science Communication Study of the Cameron Peak Wildfire*  
Thesis adviser: Sean Bryan, Geosciences
- Turner Solheim**, Biomedical Engineering with Mechanical Engineering major and Business Administration minor and Entrepreneurship certificate  
Thesis title: *SnifTek*  
Thesis adviser: Bert Vermeulen, Dean of Engineering
- Jaime Stanton**, Human Development and Family Studies with Pre-Health Professions concentration  
Thesis title: *All Hands on Deck: An Interactive American Sign Language Learning Tool*  
Thesis adviser: Pamela Vaughan Knaus, Honors Program

- Jenna Stubbers**, Mechanical Engineering major  
Thesis title: *A Comparative Life Cycle Assessment of Conventional and Local Outdoor Lettuce Production Systems*  
Thesis adviser: Jason Quinn, Mechanical Engr
- Bali Summers**, Chemistry major with ACS certification concentration  
Thesis title: *Considering Novel Electrode Materials for Measuring the Oxidative Potential of Particulate Matter*  
Thesis adviser: Chuck Henry, Chemistry
- Xiaowen Sun**, Ecosystem Science and Sustainability major  
Thesis title: *Interactions between groundwater and climate change*  
Thesis adviser: Randall Boone, Ecosystem Sci & Sustnblty
- Ziwen Sun**, Ecosystem Science and Sustainability major  
Thesis title: *Impact of global warming and overgrazing on Tibetan antelopes on the Tibetan Plateau*  
Thesis adviser: Randall Boone, Ecosystem Sci & Sustnblty
- Amber Taylor**, Biological Science major with Biological Science concentration  
Thesis title: *Medical Mistrust and Racism in Healthcare*  
Thesis adviser: Howard Miller, Economics
- Abigail Thomas**, English major with Creative Writing concentration and Ethnic Studies minor  
Thesis title: *A Chapbook*  
Thesis adviser: Sasha Steensen, English
- Lauren Thomas**, Biological Science major with Biological Science concentration and Chemistry minor  
Thesis title: *Paraquat - Poisoning and Parkinson's Disease: The United States Environmental Protection Agency Needs to Ban the Lethal Herbicide*  
Thesis adviser: Ron Tjalkens, Environmental and Radiological Health Sciences
- Marshall Thomas**, Microbiology major and Environmental Health major  
Thesis title: *Method Development for the Enrichment of Mycobacterium Tuberculosis Extracellular Vesicles from Human Sputum using Concanavalin A*  
Thesis adviser: Nicole Kruh-Garcia, Infectious Disease Research Center
- Aline Thongvanh**, Business Administration major with Finance concentration and International Business certificate  
Thesis title: *How Video Games Serve As An Escape Mechanism In Adolescents*  
Thesis adviser: Sarah Zwick-Tapley, Honors Program
- David Thormodsgard**, Civil Engineering major  
Thesis title: *Hydraulic Modeling for CDOT Bridge Replacement*  
Thesis adviser: Ryan Morrison, Civil Engineering
- Brooke Toothaker**, Anthropology major with Archeology concentration and Sociology major with Criminology and Criminal Justice concentration  
Thesis title: *An Asylum of Broken Bones: Trauma Analysis across 19th Century Mental Health Facilities*  
Thesis adviser: Connie Fellmann, Anthropology and Geography
- Maxwell Towlen**, Chemical and Biological Engineering major  
Thesis title: *Direct Air Carbon Capture*  
Thesis adviser: Travis Bailey, Chemical Engineering
- Michael Townsend**, Engineering Science and International Studies major, Mechanical Engineering major and Chinese and Mathematics minors and Entrepreneurship certificate  
Thesis title: *UAV Sensor Exfiltration Architecture*  
Thesis adviser: Wade Troxell, Mechanical Engr
- Alyssa Uhl**, Environmental Health major and Spanish and Global Environmental Sustainability minors  
Thesis title: *Ramigos: Espanol Afuera*  
Thesis adviser: Frederique Grim, Languages, Literatures and Cultures
- Caroline Vacante**, English major with Writing, Rhetoric and Literacy concentration  
Thesis title: *Zelda and F. Scott Fitzgerald: Marriage Dynamics, Plagiarism Claims, and Mental Hospital Stays*  
Thesis adviser: Ashley Davies, English
- Sariya Vafina**, Business Administration with Accounting concentration and Spanish minor  
Thesis title: *Supplements-To-Go*  
Thesis adviser: Liz Webb, Marketing

**Ananya Vajapayajula**, Chemical and Biological Engineering major and Biomedical Engineering minor  
Thesis title: *Designing a SARS-CoV-2 Wastewater Virus Trap Using Protein Engineering*  
Thesis adviser: Christopher Snow, Chemical Engineering

**Isabella Valdez**, Forest and Rangeland Stewardship major with Forest Management concentration and Geospatial Information Science for Natural Resources minor  
Thesis title: *Public Opinions on Forest Disturbance and How They May Change with Information*  
Thesis adviser: Wade Tinkham, Forest Rnglnd Stwdshp

**Kaylee Valenzia**, Biomedical Sciences major and Chemistry minor  
Thesis title: *An Analysis of Mental Health Holds*  
Thesis adviser: Michael Tamkun, Biomedical Sciences

**Molly Vetter**, Biomedical Sciences major and Chemistry minor  
Thesis title: *A comparative review of physiological effects of vaping and the effects students at Colorado State University who vape notice compared to those who have vaped and successfully quit*  
Thesis adviser: Ryan Maresh, Biomedical Sciences

**Robert Vickerman**, Biochemistry major with Health and Medical Sciences concentration and Molecular Biology and Chemistry minors  
Thesis title: *Using NET-seq to determine global RNAP distribution of wild type and altered chromatin landscapes in Thermococcus kodakarensis*  
Thesis adviser: Thomas Santangelo, Biochem Molec Bio

**Gunnar Wagner**, Ecosystem Science and Sustainability major and Geospatial Information Science for Natural Resources minor  
Thesis title: *Climate Change in Colorado: Everyday Evidence*  
Thesis adviser: Elizabeth Tulanowski, Ecosystem Sci & Sustnblty

**Owen Wahl**, Biomedical Engineering with Mechanical Engineering major  
Thesis title: *Bioadhesives for the Fixation and Loading of a Novel Intervertebral Disc Repair Patch*  
Thesis adviser: Christian Puttlitz, Mechanical Engr

**Peter Walsh**, Computer Engineering major  
Thesis title: *Machine Learning, Sensing, and Image Processing for Snow Research*  
Thesis adviser: Branislav Notaros, Elec & Comp Engr

**Buzz Walter**, Physics major with Physics concentration, Mathematics major with General Mathematics concentration and Machine Learning minor  
Thesis title: *CVN Deep Learning in HEP: Feature Selection in Minimall Bias NOvA Data*  
Thesis adviser: Norman Buchanan, Physics

**Marit Wang**, Biomedical Sciences major  
Thesis title: *Validating the Cooking Process for Shelf-Stable Ready-To-Eat Beef Snack Sticks*  
Thesis adviser: Bob Delmore, Animal Sciences

**Xiaoran Wang**, Business Administration major with Finance concentration  
Thesis title: *The Company Valuation Report of General Mills*  
Thesis adviser: Costanza Meneghetti, Fin and Real Estate

**Christopher Warren**, Business Administration with Supply Chain Management concentration  
Thesis title: *Reframing Business Ethics For Supply Chain Management*  
Thesis adviser: Chris Becker, Accounting

**Madison Watt**, Biomedical Sciences major with Anatomy and Physiology concentration  
Thesis title: *Placental Corticotropin Releasing Hormones as a Pregnancy Indicator in Felines*  
Thesis adviser: Jerry Bouma, Biomedical Sciences

**Julia Webb**, Fish, Wildlife and Conservation Biology with Wildlife Biology concentration  
Thesis title: *Nematode, mayfly and trout interactions in Colorado streams with differing disturbance from wildfire*  
Thesis adviser: Daniel Preston, Fish Wldlf & Conservation Bio

**Melody Weber**, Biological Science major with Biological Science concentration  
Thesis title: *Marginalization in Medicine: How Discrimination Hinders the Ability to 'Do No Harm'*  
Thesis adviser: Mark Brown, Clinical Sciences

**Hunter Wilde**, Human Development and Family Studies with Prevention and Intervention Science concentration  
Thesis title: *Analysis and Practical Application of the Reggio Emilia Approach*  
Thesis adviser: Karen Rattenborg, Human Development and Family Studies

- Caitlyn Williams**, Chemical and Biological Engineering major  
 Thesis title: *Continuous Ultra-Violet Polymer Purification System for Tolmar Inc.* ©  
 Thesis adviser: Matthew Kipper, Chemical Engineering
- Evan Williams**, Computer Science major with Computer Science concentration and Mathematics minor  
 Thesis title: *A Multidimensional Analysis of John Conway's Game of Life*  
 Thesis adviser: James Beveridge, Computer Science
- Madeline Wilson**, Restoration Ecology major  
 Thesis title: *Plants and Fire: An Undergrad's Journey through Analyzing Prescribed Fire Understory Data*  
 Thesis adviser: Antony Cheng, Forest Rnglnd Stwdshp
- Morgan Winters**, Biological Science major with Biological Science concentration  
 Thesis title: *Why PEPCK should be Studied in Relation to Cell Proliferation and Steroidogenesis*  
 Thesis adviser: Adam Chicco, Biomedical Sciences
- Aria Witt**, Biomedical Sciences major and Chemistry minor  
 Thesis title: *The Effect of ROS Inhibitors on Rotenone-Treated C57 Mouse Glial Cells: A Parkinson's Disease Model*  
 Thesis adviser: Adam Chicco, Biomedical Sciences
- Connor Witt**, Chemical and Biological Engineering major and Chemistry minor  
 Thesis title: *Mechanical Optimization Of 3 D-Printed Poly-(e)-Caprolactone Sleeves Used For Bone Implant Procedures*  
 Thesis adviser: David Prawel, Mechanical Engineering
- Tatiana Wolf**, Biological Science major with Biological Science concentration and Business Administration minor  
 Thesis title: *Howling Rabbitry Business Plan*  
 Thesis adviser: Burton Deines, Management
- Benjamin Woosley**, Business Administration major with Finance and Financial Planning concentrations  
 Thesis title: *The impacts of COVID-19 on the hospitality industry*  
 Thesis adviser: Robert Schwebach, Fin and Real Estate
- Emily Wrede**, Biomedical Sciences major  
 Thesis title: *The way to someone's brain is through their gut: microbial regulation of tryptophan metabolism via the kynurenine pathway (KP) and the potential link it may have to depression*  
 Thesis adviser: Katriana Popichak, Mcrblyg, Immnly & Pthlyg
- Abigail Wright**, Civil Engineering major  
 Thesis title: *Highland Lake Pier Design for the Town of Mead, Colorado*  
 Thesis adviser: Christopher Thornton, Civil Engineering
- Kiyoshi Yamamoto**, Electrical Engineering major with Lasers and Optical Engineering and Mathematics, Computer Science and Physics minors  
 Thesis title: *Single-cycle laser pulses*  
 Thesis adviser: Jorge Rocca, Elec & Comp Engnr
- Karen Yang**, Biological Science major with Biological Science concentration  
 Thesis title: *Best Practices of Animal Shelters in Colorado*  
 Thesis adviser: Jennie Marko, Biology
- Margaret Yates**, Biochemistry major with ASBMB concentration and Chemistry minor  
 Thesis title: *Investigation of Advances in the Pursuit of a Herpes Simplex Virus Cure*  
 Thesis adviser: Corey Rosenberg, Biochem Molec Bio
- Lina Yi**, Zoology major and Psychology major with General Psychology concentration  
 Thesis title: *Neural Mechanisms Through Which Childhood Neglect May Increase Risk for Substance Use Disorders*  
 Thesis adviser: Emily Merz, Psychology
- Sophie Zook**, Biomedical Sciences major with Chemistry minor  
 Thesis title: *Colorado Municipality Trash Ordinances and Black Bear Conflicts*  
 Thesis adviser: Nicole Vieira, Honors Program
- Corryn Zylstra**, Zoology major and Anthropology minor  
 Thesis title: *Instituting a Procedure for the Curation of a Teaching Collection at Colorado State University*  
 Thesis adviser: Meena Balgopal, Biology