College of Agricultural Sciences
Candidates for University Honors Scholar
Spring 2021


College of Business
Candidates for University Honors Scholar
Spring 2021

Sidra Aghababian, Business Administration major with Organization and Innovation Management concentration and Political Science major with Environmental Politics and Policy concentration. Thesis title: Colorado Coal Communities During Energy Transition: Do They Have Environmental and Social Justice Policies to Address the Transition?


Savannah Babish, Business Administration major with Accounting concentration, Criminal Justice minor and Information Technology for Business Professionals certificate. Thesis title: Shaping the ethical business world: An evaluation of proactive establishment of ethical company culture in the business environment.

Callie Blase, Business Administration major with Marketing concentration, Spanish and Applied Statistics minors and Marketing Research and Data Analytics certificate. Thesis title: Biz Ram’s Clothing Closet.

Meghan Brozovich, Business Administration major with Marketing concentration and English minor. Thesis title: Creating a Crisis Communications Course for Colorado State University’s College of Business.

Brian Dusek, Business Administration with Marketing concentration and Communication Studies major. Thesis title: Colorado State University’s Fall 2021 Strategic Communications Plan.


Jared Knigge, Business Administration major with Marketing concentration. Thesis title: The Usefulness of Video Storytelling to Achieve an Organization’s Goals.


Angela Reed, Business Administration major with Accounting concentration. Thesis title: Common Metrics Between Fraudulent Companies.


Jayde Contreras, Early Childhood Education major. Thesis title: Extended Candidate Work Sample: Differentiating for English Language Learners.


Sarah Siayap, Business Administration major with Finance concentration and Political Science major. Thesis title: Sustainable Financing as a Resource for Western Water Basins.


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**College of Health and Human Sciences Candidates for University Honors Scholar Spring 2021**


Jayde Contreras, Early Childhood Education major. Thesis title: Extended Candidate Work Sample: Differentiating for English Language Learners.


Sarah Siayap, Business Administration major with Finance concentration and Political Science major. Thesis title: Sustainable Financing as a Resource for Western Water Basins.


Sarah Siayap, Business Administration major with Finance concentration and Political Science major. Thesis title: Sustainable Financing as a Resource for Western Water Basins.


Skyler Williams, Health and Exercise Science major with Sports Medicine concentration and Spanish minor. Thesis title: Physical Activity, Depression and Fatigue as Predicators of Health-Related Quality of Life in People with Multiple Sclerosis.


Emeshe Amade, Sociology major with Environmental Sociology concentration and English and Spanish minors. Thesis title: The Little Wisdoms Project.

Alyssa Baechle, Music major and Business Administration and German minors. Thesis title: A Study of Six the Musical: Bringing Contemporary Feminism to the Modern Theatrical Stage.


College of Liberal Arts
Candidates for University Honors Scholar
Spring 2021

Zoe Mack, Sociology major with Criminology and Criminal Justice concentration and Legal Studies minor. Thesis title: The Identification and Detection of Human Trafficking in the U.S.


Jillian Mitchell, Anthropology major with Biological Anthropology concentration and Sociology major with Criminology and Criminal Justice concentration. Thesis title: The Impact of Structural Issues in the Criminal Justice System on Forensic Anthropology.


Peter Nieuwlant, Geography major. Thesis title: Production and Consumption of the Nke Cortex since 1972, a Spatial Investigation.


Allison Parks, History major with Language concentration and Political Science major with Global Politics and Policy concentration and Spanish and Russian Studies minors. Thesis title: An Analysis of Human Trafficking Misconceptions to Educate the General Public.

Gabriela Perry, History major with Social Studies Teaching concentration. Thesis title: Rigoberta Menchu: The International Admiration and Condemnation of a Mayan Woman.

America Rios-Martinez, Economics major, International Studies major with Latin American concentration and Languages, Literatures and Cultures major with Spanish concentration. Thesis title: How COVID-19 is Having a Disproportionately Negative Effect on Hispanics and How to Address Possible Solutions.

Taylor Sandal, Journalism and Media Communications major and Global Environmental Sustainability minor. Thesis title: Holding on: Exploring Music as a Tool to Make a Difference.


Mary Swing, International Studies major with Latin American Studies concentration, Political Science major and Languages, Literatures and Cultures major with Spanish concentration and Chinese minor. Thesis title: International and Third Culture Kid (TCK) Student Handbook to CSU.

Brandon Tobey, Political Science major and History major with General History concentration and Legal Studies minor. Thesis title: First Past the Post: Most Votes Wins, But Do the Voters Also Win?


Taylor White, English major with Creative Writing concentration and Business Administration and Spanish minors. Thesis title: The United States: A Novel.


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**College of Natural Sciences**

**Candidates for University Honors Scholar**

**Spring 2021**

Cooper Ast, Biological Science major with Biological Science concentration. Thesis title: Development of a Novel and Adaptable RNA Extraction Method.

Lindsey Boesen, Biological Science major with Biological Science concentration. Thesis title: Skin as an Indicator of Disease: Diabetes Mellitus.


Monique Broussard, Chemistry major. Thesis title: Improving Non-Invasive in Vivo Imaging Technique With NMR Temperature Sensitivity of Trisethylenediamine Cobalt (III) and Amin Species Citrate, Tartrate and Acetate.


Chenoe Colon, Biological Science major with Biological Science concentration. Thesis title: The Potential of Integrating Adoptable Canines into Higher Education Academic Environments.

Ryann Daly, Chemistry major with ACS certified and Mathematics and Nutrition minors. Thesis title: Characterizing the Influence of Hemp Protein in Modifying the Food Product Matrix Delivery System of Blueberry Polyphenol Extract to Increase Bioavailability and Usefulness of Phytochemicals.


Andres Fernandez, Biochemistry major with ASMB concentration and Music and Molecular Biology minors. Thesis title: Classifying the Role of the Bsp1 Protein in Yeast Clathrin-Mediated Endocytosis.


Jasmine Gallegos, Biological Science major with Biological Science concentration. Thesis title: The Effects of High Intensity Exercise on the Shedding of Parasite Eggs.


Samantha Harris, Biochemistry major with General Biochemistry concentration, Spanish and Molecular Biology minors and Spanish for Animal Health Care certificate. Thesis title: Apolipoprotein E in Metabolic Disease Sates and Human Longevity.


Tatiana Jourdan, Zoology major and Business Administration, Global Environmental Sustainability and French minors. Thesis title: Ram Cash Usage on Campus.


Mariah Mauro, Biological Science major with Biological Science concentration. Thesis title: The Importance of Exercise During Adolescence.


Darcy Moore, Biological Science major with Biological Science concentration. Thesis title: Engineering a Model Cyanobacterium to Renewably Produce Isobutyraldehyde.

Camille Moss, Biological Science major with Biological Science concentration and Biomedical Sciences minor. Thesis title: Effectiveness of Different Training Strategies in Dogs.


Arita Vanessa Rivera, Biochemistry major with Health and Medical Sciences concentration and Languages, Literatures and Cultures major with Spanish concentration and Chemistry minor. Thesis title: Scorpion Venom: An Assessment of Cancer Treatments and Their Biochemical Pathways.


Liliana Rogers, Biological Science major with Biological Science concentration and International Development minor. Thesis title: Integrative Medicine as a Solution to Criticisms of Biomedicine and Mechanism of Increasing Cultural Competency in Health Care.


Madison Schuster, Biological Science major with Biological Science concentration and Spanish minor. Thesis title: An Assessment of the Holistic Well-Being of ROTC Cadets During Physical Fitness Training and Implications for Performance and Recovery.


Caroline Wendt, Mathematics major with General Mathematics concentration and Statistics major with General Statistics concentration. Thesis title: Weaving accessible technologies into a bookdown framework to enhance user accessibility and promote inclusivity of reproducible research.


Emma Wilson, Psychology major with Addiction Counseling concentration and Spanish minor. Thesis title: Assistant Professor Department of Psychology.

Owen Zielinski, Biochemistry major with ASBMB concentration and Psychology major with Clinical/Counseling Psychology concentration. Thesis title: The Potential Usage of Nitisinone as a Treatment for Hawkinsimuria.

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**College of Veterinary Medicine and Biomedical Sciences**

**Candidates for University Honors Scholar**

**Spring 2021**


Joey Boerhr, Microbiology major. Thesis title: Mycobacterial Growth and Division Cycle Regulation.


Jamie Burke, Biomedical Sciences major and Spanish and Chemistry minors. Thesis title: Socioeconomic Discrepancies in Fetal-Maternal Medicine.


Gillian Cook, Biomedical Sciences major. Thesis title: Genome Editing as a Therapeutic Tool in Huntington’s Disease.


Morgan Edstrom, Biomedical Sciences major and Spanish minor. Thesis title: Path to PA.

Julie Elwyn, Biomedical Sciences major. Thesis title: The Importance of Physiology in High School Science Curriculum.

Hadley Frisby, Biomedical Sciences major and Nutrition minor. Thesis title: Instructional Anatomy Videos as an Enhancement to In-Person Learning: Focus on Attachments, Insertions, and Actions of Muscles.


Kristin Hinsen, Biomedical Sciences major. Thesis title: Efficacy of Nitric Oxide as an Alternative Therapeutic for Neuroblastoma.

Lauren Houdesheldt, Environmental Health major and Biomedical Sciences minor. Thesis title: Combating the Spread of Zoonotic Diseases.


Aidan Lewis, Neuroscience major with Cell and Molecular Neuroscience concentration. Thesis title: Fear and Hope: An Integrative Neuroscience Model For Values and Decision-Making.


Kolby Moore, Biomedical Sciences major. Thesis title: Return to Sport After Injury.


Jenna Nguyen, Biomedical Sciences major. Thesis title: Female Arousal: What Does or Does Not Cause the Sparks?.


Raegan Petch, Microbiology major and Spanish and Chemistry minors and Spanish for Animal Health Care certificate. Thesis title: Frequent Spillover of Feline Leukemia Virus From Domestic Cats to North American Pumas.

Emily Ranieri, Biomedical Sciences major and Conservation Biology minor. Thesis title: Enrichment Techniques for the Wholistic Care of Large Felids in Zoological Settings.


Kimberly Shelton, Microbiology major. Thesis title: Investigation of FimH Activation of In innate Immunity via TLR4 Binding and Signaling.

Sydney Suckling, Biomedical Sciences major. Thesis title: Ulcerative Colitis and the Lives of Young Adults.


Mollie Uhrig, Microbiology major. Thesis title: Understanding the Role of RAD51AP1 in Affecting the Susceptibility to Radiation Carcinogenesis in Mice.

Jasmin Valadez, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and Spanish minor. Thesis title: An Examination of Socioeconomic Differences in Brain Development: Mediators and Targets for Change.

Walter Scott, Jr. College of Engineering
Candidates for University Honors Scholar
Spring 2021


Taylor Ausec, Chemical and Biological Engineering major and Biomedical Engineering and Chemistry minors. Thesis title: Engineering Design of Human Mesenchymal Stem Cell Production for the Treatment of Spinal Cord Injuries.


Jack Burns, Chemical and Biological Engineering major and Business Administration minor. Thesis title: Engineering a Safe Inhibitor for the Enzyme Tryptase.


Christina Chang, Mechanical Engineering major with Aerospace Engineering concentration. Thesis title: Spaceport America Cup Rocket Team.


Kiley Dindinger, Civil Engineering major. Thesis title: Cameron Peak Fire Erosion Mitigation.

Joanna Dunne, Biomedical Engineering with Mechanical Engineering major. Thesis title: Canine Exoskeleton for Rehabilitation.


Ricardo Vazquez, Biomedical Sciences major with Health and Medical Sciences concentration and Biochemistry major. Thesis title: Shedding Light on Type 2 Diabetes Mellitus: Translating Novel Diagnostic and Therapeutic Approaches to Increase Disease Understanding and Prevention.

Olivia Wennstedt, Biomedical Sciences major and Spanish minor. Thesis title: ¿Quieres Ser Veterinario?

Alix Young, Biomedical Sciences major and Chemistry minor. Thesis title: Flipbook of Human Anatomy.

Maia Zoller, Neuroscience major with Cell and Molecular Neuroscience concentration. Thesis title: The Role of Microglia in Neuronal Cofilin Pathology: A Possible Target for Therapeutic Intervention in Neurodegenerative Disease.

Sarah Easton, Biomedical Engineering with Chemical and Biological Engineering major and Mathematical Biology minor. Thesis title: Cancer Immunotherapy: A Review.

Benjamin Farkas, Biomedical Engineering with Chemical and Biological Engineering major. Thesis title: Real-Time Augmented Reality Ultrasound Display System.

Logan Farrand, Biomedical Engineering with Mechanical Engineering major. Thesis title: Medtronic Pediatric Spine Clamp Senior Capstone (Engineering).

Samantha Fischer, Civil Engineering major. Thesis title: Jackson Ditch Rehabilitation.

John Fleischmann, Biomedical Engineering with Mechanical Engineering major. Thesis title: Quatro Socket Engineering Analysis.


Emily Hoffmann, Biomedical Engineering with Mechanical Engineering major and Mathematics minor. Thesis title: Ultraviolet Germicidal Irradiation Device (Senior Design).


Kyle Howe, Chemical and Biological Engineering major and Music major with Performance concentration. Thesis title: An Educational Module on Designing and Simulating an Ethanol Chemical Plant.

Ting Yu Hsu, Biomedical Engineering with Chemical and Biological Engineering major and Music major with Performance concentration. Thesis title: Developing a Real-Time Augmented Reality Ultrasound Display System Utilizing Microsoft HoloLens 2.

Rachel Keating, Biomedical Engineering with Chemical and Biological Engineering major and Mathematics minor. Thesis title: Wireless Smart Junctional Tourniquet.

Abigail Maben, Mechanical Engineering major. Thesis title: Urban Air Quality Impacts Inferred From Ground-Based Monitoring Networks Due to Geographic Variability and the COVID-19 Pandemic.

Hannah Mabry, Biomedical Engineering with Chemical and Biological Engineering major and Mathematics minor. Thesis title: Cairns : A Grateful Reflection in Photopoesy.


Elise Ng, Biomedical Engineering with Mechanical Engineering major. Thesis title: Pediatric Spine Clamp.


Layne Perry, Civil Engineering major. Thesis title: Brumadhino What If Project.

Emily Radtke, Chemical and Biological Engineering major and Environmental Engineering minor. Thesis title: Drone Detection of Harmful Algal Blooms - Design Phase of an EPA-P3 Project.


Mehdi Rubaai, Chemical and Biological Engineering major and Mathematics major with General Mathematics concentration. Thesis title: Vector Bundles and Swan’s Theorem.


Kayla Schultz, Civil Engineering major and Global Environmental Sustainability minor. Thesis title: Larimer County Floodplain Modeling and Mitigation.


Tracey Wick, Biomedical Engineering major with Chemical and Biological Engineering major. Thesis title: Investigation of a Metal-Organic Framework Coating onto Extracorporeal Membrane Oxygenation Tubing.


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**Warner College of Natural Resources**

**Candidates for University Honors Scholar**

**Spring 2021**

Tori Applehans, Fish, Wildlife and Conservation Biology with Conservation Biology concentration. Thesis title: Invertebrate Community Composition Variability by Wetland Type and Duckling Survival in Malls (Anas platyrhynchos) and Gadwall (Mareca strepera) in North Park, Colorado.


Lenka Doskocil, Watershed Science major. Thesis title: Correlations Between Peak Snow Water Equivalent (SWE), Snow-All-Gone Date, and Date and Magnitude of Peak Discharge in the Uncompahgre River.

YuanXing Fang, Ecosystem Science and Sustainability major. Thesis title: “Off the Roof” Citizen Science Project.


Natalie McManus, Ecosystem Science and Sustainability major and Environmental Affairs minor. Thesis title: Deep Within Our Climate Crisis.


Meghan Montagne, Ecosystem Science and Sustainability major and Environmental Affairs minor. Thesis title: Creating an Open Access Database For Ecosystem Science Discovery in the South Platte River Community.


Hannah Willis, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration. Thesis title: Why We Conserve: A Short Film About Connecting to the Important Things.


Zhongmiao Xue, Ecosystem Science and Sustainability major. Thesis title: Constructed wetlands may become a new form of sewage treatment in the future.

Xi Zeng, Ecosystem Science and Sustainability major. Thesis title: Climate Change Impacts on Future Fire Behavior in Rocky Mountain National Park.

Mengfei Zhang, Ecosystem Science and Sustainability major. Thesis title: Climate Change Impacts on Colorado Forest Ecosystem.