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# **CU BOULDER OUTREACH AWARDS**

**2019–20**

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Office for Outreach and Engagement

UNIVERSITY OF COLORADO BOULDER



## A MESSAGE FROM CAMPUS LEADERSHIP

We are excited to celebrate the 20<sup>th</sup> anniversary of the annual CU Boulder Outreach Awards. Since 1999, \$6 million has been awarded to 808 public outreach and community engagement projects, supporting university research, teaching and creative work that has directly benefited 5.5 million people in Colorado and beyond.

We take pride in the faculty, staff and students who are reaching beyond the university to partner with nonprofits, schools, government agencies, businesses and more. Together, we are creating new knowledge and addressing real problems facing communities.

The CU Boulder Outreach Committee received 58 outstanding proposals this year. We are very pleased to announce that for 2019–20, the Office of the Chancellor, Office of the Provost and Division of Continuing Education will provide \$460,000 in funding for 34 projects from every college and school at CU Boulder.

These impressive projects represent a portion of our university's more than 260 current outreach and engagement projects, which embody CU Boulder's role as a comprehensive public research university that leads, innovates and positively impacts humanity. This work also aligns with the Division of Continuing Education's mission of providing lifelong learning opportunities for diverse populations across our state.

We invite you to read how this year's funded projects engage with people and communities throughout Colorado, our region and the world. Together, we can draw inspiration from these projects as we commit ourselves to many more years of partnerships, academic work and enduring impact.

Sincerely,

**Philip P. DiStefano**  
*Chancellor*

**Russell L. Moore**  
*Provost*

**Sara Thompson**  
*Vice Provost for Outreach  
and Engagement  
Dean of Continuing Education*

## OUTREACH AND ENGAGEMENT DEFINED

**At CU Boulder, we define outreach and engagement as the ways faculty, staff and students collaborate with external groups in mutually beneficial partnerships that are grounded in scholarship and consistent with our role and mission as a comprehensive, public research university.**

For faculty, outreach rooted in scholarship enhances teaching, research, creative work and service while addressing larger societal issues. For students and staff, community engagement and service projects link campus teaching and learning to civic responsibility and community well-being. For communities, partnering with CU Boulder increases the capacity to address important social, economic and cultural issues. At their best, outreach and engagement activities provide significant learning and growth opportunities to faculty, students, staff and partnering communities.

Whether through research projects, teaching activities, civic engagement or service learning, the reciprocal nature of outreach and engagement enriches both our academic mission and the communities we serve.

*Endorsed by the CU Boulder Council of Deans, February 16, 2010*

## CU BOULDER OUTREACH AWARDS

These awards fund faculty-led outreach and engagement projects that connect research, teaching and creative work with public needs. Staff as well as graduate and undergraduate students play key roles in the projects. In some cases, the awards have led to external funding.

The CU Boulder Outreach Committee, which is composed of faculty and staff from many disciplines, selects projects that receive awards based on the following criteria:

- Aligns with campus definition of outreach and engagement
- Responds to a direct request made by a school or community group
- Establishes a long-term relationship with a group or community
- Serves a community with limited access to CU Boulder programs
- Makes the work of CU Boulder's faculty accessible to the public

The Office for Outreach and Engagement, a unit within Continuing Education, administers the awards, helping to ensure that projects are of the highest quality by consulting with potential awardees and managing the application process.

For more information, contact Jeanne McDonald, [jeanne.mcdonald@colorado.edu](mailto:jeanne.mcdonald@colorado.edu), or visit [colorado.edu/outreach/oe/outreach-awards](http://colorado.edu/outreach/oe/outreach-awards).

## 2019–20 AWARDS' IMPACT

 **\$460,000**  
awarded to  
**34 PROJECTS**

 **245,000+**  
**PEOPLE** in Colorado  
and beyond

 **601** CU Boulder  
**STUDENTS**

 **193** **FACULTY**  
and **STAFF**

## CU BOULDER OUTREACH COMMITTEE

**Professor Bud Coleman**  
**Committee Chair**

*Department of Theatre & Dance*

**Professor Jaelyn Eberle**

*Department of Geological Sciences*

*Director of Museum and Field Studies Program  
and Curator of Vertebrate Paleontology,  
University of Colorado Museum of Natural History*

**Professor Michael Hannigan**

*Department of Mechanical Engineering*

**Associate Professor Jennifer Hayghe**

*College of Music*

**Associate Clinical Professor**  
**Sean Helle**

*Getches-Green Natural Resources and Environmental  
Law Clinic, Colorado Law*

**Senior Instructor Veronica House**

*Associate Director, Program for Writing and Rhetoric*

**Professor A. Susan Jurow**

*School of Education*

**Associate Professor Jill Litt**

*Environmental Studies Program*

**David Meens**

*Director, Office for Outreach and Engagement*

**Professor Joseph Ryan**

*Department of Civil, Environmental,  
and Architectural Engineering*



Seated (left to right): Bud Coleman, Susan Jurow, Michael Hannigan. Standing (left to right): Jaelyn Eberle, David Meens, Sean Helle, Joe Ryan, Jennifer Hayghe. Not pictured: Jill Litt, Veronica House. *Photo by Casey Cass, CU Boulder*

### COLLEGE OF ARTS AND SCIENCES

#### **Attention, Behavior, and Learning Clinic: Affordable Childhood Evaluations** Research Associate Nomita Chhabildas and Professor Erik Willcutt

*Department of Psychology and Neuroscience*

The clinic provides comprehensive evaluations for children who are experiencing academic, behavioral and emotional difficulties while offering participating graduate students valuable educational experience. The clinic operates on a sliding scale that allows many low-income families to access these services at low to no cost.

#### **Brain Behavior Clinic and Boulder County Homelessness**

Associate Clinical Professor Emily Richardson

*Department of Psychology and Neuroscience*

More than half of chronically homeless people may have undiagnosed cognitive deficits. This partnership with the Boulder County Shelter for the Homeless, the People's Clinic and other local mental health centers helps to identify and support those who might have cognitive deficits. Through the clinic, Richardson and her graduate students provide homeless people with neuropsychological evaluations, which can be used to access disability benefits.

#### **Colorado Classics Day 2019**

Associate Professor Jackie Elliott

*Department of Classics*

This program is for middle and high school students from across the state with an interest in ancient Greece and Rome. In September, the classics department hosts Colorado Classics Day, which is designed to broaden students' understanding of classical language and culture, and their relevance to today.



Middle and high school students participate in Colorado Classics Day at CU Boulder. Photo by Tyler Lansford, CU Boulder

#### **Co-Designing an Early Education Program for Children Birth to Three** Associate Professor Eliana Colunga

*Department of Psychology and Neuroscience*

By the time they are three years old, middle-income children have twice the vocabulary of low-income children. This project works with Boulder Housing Partners to close this gap by empowering parents to build on their knowledge through a culturally sensitive, parent-based early education program.

#### **Critical Conversations Project: Playback Theatre in Rural Colorado**

Senior Instructor James Walker, *Norlin Scholars Program*

Production, Outreach & Engagement Liaison Ondine Geary, *Department of Theatre & Dance*

The economy of Colorado's North Fork Valley is shifting, which has created tension in the community. To help bridge the divide, the North Fork Valley Creative Coalition has asked the CU Boulder theatre department to facilitate a program where residents share their stories and see them "played back" by an ensemble of actors in ways that encourage understanding. The goal is to create a collective conversation around the economic transition.

#### **CU Contemporary Dance Works Residency Tour**

Assistant Professor Helanius Wilkins and Production, Outreach & Engagement Liaison Ondine Geary

*Department of Theatre & Dance*

During a weeklong residency each spring, this graduate student touring company brings dance to Colorado communities that are underserved by the arts. In May, the students will head to Paonia to offer classes, workshops and performances in partnership with schools, a senior citizens group, local nonprofits and community arts organizations.



Students in Paonia learn some new dance steps as part of a CU Boulder dance outreach program. Photo by Ryan Sinton, CU Boulder

### **Empowering Economically Disadvantaged Adolescents with Complex Communication Needs**

**Clinic Faculty Member Sherri Tennant and Assistant Professor Christine Brennan**

*Department of Speech, Language, and Hearing Sciences*

Through this project, CU Boulder faculty and graduate students provide training for speech pathologists, educators and other staff at the Denver School of Science and Technology (DSST). This training helps DSST professionals more effectively support middle and high school students with complex communication needs due to autism, cerebral palsy and other medical conditions.

### **Intervention for Culturally and Linguistically Diverse Children with Developmental Disorders**

**Associate Professor Pui Fong Kan and Clinical Assistant Professor Amy Thrasher**

*Department of Speech, Language, and Hearing Sciences*

This partnership with Boulder Community Health, Imagine!/Dayspring and Boulder Valley School District provides training for speech-language pathologists who work with culturally and linguistically diverse children with communication disorders, focusing in particular on immigrant children who are starting to learn English in school. This early intervention program works closely with families who are traditionally reluctant to seek professional services.



Speech-language pathologists learn how to work with diverse children with communication disorders. *Photo by Sierra Parker, CU Boulder*

### **Literacy Practicum**

**Professor Kira Hall**

*Department of Linguistics*

This program partners with Boulder community literacy programs to provide a service-learning component for an undergraduate course. CU Boulder students work with at-risk children and adults to improve reading and writing skills by applying targeted teaching strategies and information taught during the campus course.

### **RDS Center: Reaching Out to People with Bipolar Research**

**Senior Research Associate Alisha Brosse and Adjunct Professor David Miklowitz**

*Department of Psychology and Neuroscience*

The Robert D. Sutherland (RDS) Center for the Evaluation and Treatment of Bipolar Disorder provides comprehensive treatment to people with bipolar disorder, many of whom can't afford treatment. This community-based clinic also trains graduate students in clinical psychology and offers public seminars, talks and workshops.

## LEEDS SCHOOL OF BUSINESS

### **Demystifying Entrepreneurship Rural Colorado Workshop Series**

**Executive Director Erick Mueller**

*Deming Center for Entrepreneurship*

Colorado's rural economies are experiencing slower job growth and lower wages than urban areas. To help spur economic growth and job creation, Leeds faculty are sharing effective business practices and serving as mentors for local entrepreneurs. This series offers workshops in nearly every region of the state for five years, hoping to raise the standard of living in those communities.



Business owners in Vail talk about entrepreneurship through a Leeds School of Business workshop. *Photo by Erick Mueller, CU Boulder*

## SCHOOL OF EDUCATION

### **Improving Educational Outcomes for Low-Income, Latino English Learners**

Professor Mileidis Gort, Research Associate Vanessa Santiago Schwarz and Research Associate Laura Hamman-Ortiz

This project provides teachers from Denver area elementary schools with professional development focused on how to more effectively teach writing to low-income, Latino English learners. A CU Boulder biliteracy research team is partnering with Denver Public Schools to provide educators with targeted writing instruction and strategies to improve academic outcomes for this group of students.

### **Rethinking Family Engagement at Adams 14 School District**

Professor Kathy Escamilla and Doctoral Candidate María de los Ángeles Osorio Cooper

Through a partnership with Cultivando, a community-based nonprofit in Commerce City, this project seeks to identify ways to create dialogue between personnel at the Adams 14 school district and Latino parents. The goal is to develop more culturally inclusive policies and practices within the district, which was identified in a 2014 federal report as a hostile environment for Latinos.

### **Teaching and Learning to Queer the Curriculum**

Research Associate Sara Staley and Research Associate Bethy Leonardi

As part of an ongoing partnership between the School of Education's A Queer Endeavor and Boulder Valley School District, this project will work with teachers at Centaurus High School in Lafayette to design lesson plans focused on gender and sexual diversity.

The goal is to create inclusive practices and document how teachers develop methods for instructing diverse students.



BVSD teachers and A Queer Endeavor educators discuss LGBTQ curriculum. *Photo by Hannah Fletcher, CU Boulder*

## COLLEGE OF ENGINEERING AND APPLIED SCIENCE

### **Oil and Gas Contamination of Jackson County Waters**

Professor Joseph Ryan

*Department of Civil, Environmental, and Architectural Engineering*

New oil and gas development has recently started in Jackson County, Colorado. The Western Colorado Alliance for Community Action has asked for support from CU Boulder's engineering researchers to monitor the Grizzly Creek watershed for possible water contamination from this new development, and to inform the community about potential public health and environmental effects from oil and gas production.

## GRADUATE SCHOOL

### **Colombian Displaced Communities: Planning and Urban Design Seminar**

Assistant Professor Jota Samper

*Program in Environmental Design*

Through a five-week summer course, environmental design students study and work in an unplanned settlement near Medellin, Colombia, which was formed when people fled the city because of violence. The residents have created infrastructure, businesses and community centers from the ground up. Students work closely with residents on community projects and also with local academic researchers.



CU Boulder students and community members prepare concrete for a shed foundation in a Colombian settlement. *Photo by Jota Samper, CU Boulder*



**Find out more  
about 20 years  
of Outreach  
Award impact.**



**\$6 million**  
awarded to  
**808 PROJECTS**



**2.9 million**  
COLORADANS



**2.6 million**  
PEOPLE  
outside Colorado



**16,000+**  
FACULTY, STAFF  
AND STUDENTS



# A CENTURY OF OUTREACH AND ENGAGEMENT

From the beginning, the University of Colorado has connected its resources to communities, influencing the development of higher education and public life in Colorado.

1912

CU starts Department of Extension to offer outreach across Colorado and beyond. Early programming includes lectures, courses, public radio broadcasts and clinics.

1930

Extension opens outreach center in Denver and another in Colorado Springs in 1952. These centers would eventually become CU campuses.

1970

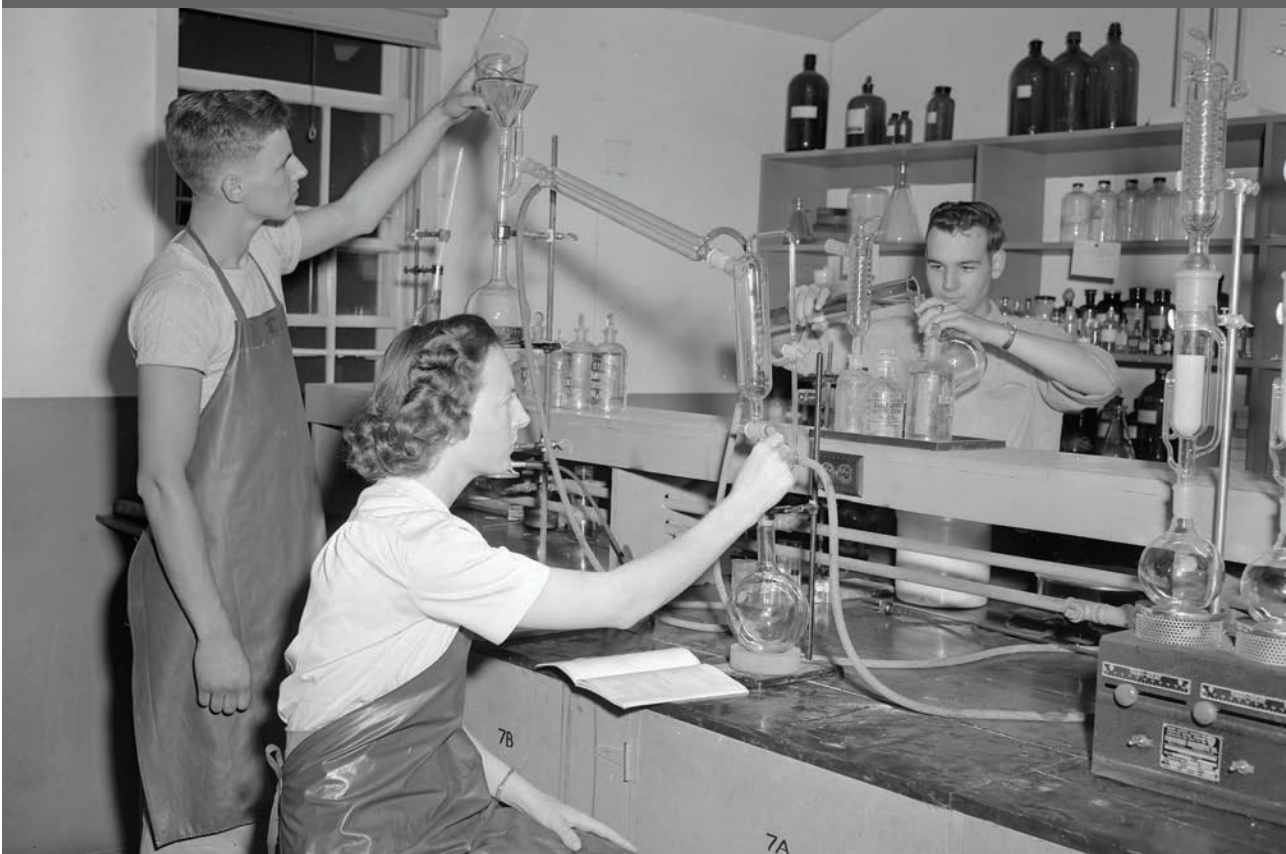
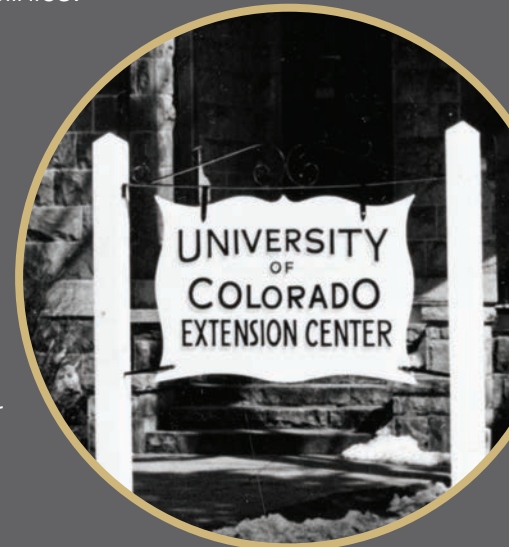
Extension becomes Continuing Education.

1999

Outreach Awards are started to bolster support for faculty-led outreach, selected by the CU Boulder Outreach Committee.

2001

Continuing Education creates office to administer awards, later renamed Office for Outreach and Engagement.



# INVESTING IN COMMUNITIES: 20 YEARS OF AWARD IMPACT

Since 1999, the **CU Boulder Outreach Awards** have provided \$6 million to 808 projects that directly benefit people in Colorado and beyond.

These projects **address pressing public needs** like K-12 educational disparities, community mental health, air and water quality, rural economic issues and more.

This funding has led to **new, innovative research**, external grants and community-based partnerships across the state.

**Below are some compelling stories** of how CU Boulder is serving Colorado and engaging the world, often in areas with limited access to university resources.

Visit [outreach.colorado.edu/programs](http://outreach.colorado.edu/programs) to learn more.



## BRINGING DANCE TO COMMUNITIES

CU Contemporary Dance Works has taught dance to 20,000 Coloradans in 51 counties in rural areas with limited access to the arts.



## PROVIDING CLEAN WATER IN AFRICA

This was one of Distinguished Prof. Bernard Amadei's first outreach projects, leading him to start Engineers Without Borders USA.



## RESEARCHING RURAL ECONOMIES

Leeds' Business Research Division has studied Colorado's economy since 1915 and expanded its rural outreach with award funding.



## TREATING DEPRESSION IN COMMUNITIES

Award support helped Prof. Sona Dimidjian launch a collaborative nationwide study researching how mindfulness can help support the mental health of new and expectant moms.



## BRINGING NATURAL HISTORY TO LIFE

The CU Museum of Natural History has delivered free fossil and archaeology kits to 483 schools in 131 Colorado districts that may not have access to university resources.



## PREPARING FUTURE MUSIC TEACHERS

More than 400 CU Boulder music students have honed their teaching skills by working with 1,300 middle schoolers through the middle school ensemble program.



## PREVENTING VIOLENCE WITH SHAKESPEARE

The Colorado Shakespeare Festival's anti-bullying program has reached more than 100,000 Coloradans and will travel to every Colorado county in the next decade.



## BUILDING CONSTITUTIONAL LITERACY

Each year, Colorado Law students and faculty teach nearly 3,000 high schoolers around the state about the Constitution and how it directly relates to their lives.



## DOCUMENTING CLIMATE CHANGE

With the Lens on Climate Change project, Colorado middle and high school students make climate change films; this award led to a \$1.1 million NSF grant.



## CODING WITH UNDER-REPRESENTED STUDENTS

Nearly 3,500 K-8 girls and students of color have learned to use technology through the Communities Inclusive Code program.



## MAKING EDUCATION INCLUSIVE

A Queer Endeavor has helped 6,000 local and national educators learn how to make classrooms inclusive for LGBTQ students.



20<sup>th</sup> anniversary of the Outreach Awards: 808 projects totaling **\$6 MILLION**

1999

2001

2003

2007

2008

2009

2011

2012

2013

2015

2017

2019

Projects are listed by the first funding year, not necessarily when the projects started.



## COLORADO LAW

### **The Acequia Project: Helping San Luis Valley Farmers**

**Professor Sarah Krakoff**

This project provides free legal support to low-income and predominately Hispanic farmers in the San Luis Valley whose water rights are at risk. CU Boulder law students, attorneys and community partners work closely with farmers or irrigators to draft bylaws for their irrigation ditches (acequias) that capture runoff from mountain snowmelt, so they can access Colorado laws and protect the traditional ways acequias operate.

### **Constitutional Literacy in Colorado High Schools**

**Professor Suzette Malveaux, Adjunct Professor Matthew Cushing, Clinical Law Professor Colene Robinson and Senior Assistant Dean Jennifer Sullivan**

This project through the Byron R. White Center in Colorado Law is designed to give Colorado high school students deeper knowledge of the Constitution so they can better advocate for constitutional rights in their communities. Law students work with schools statewide through a Constitution Day program in September and a yearlong program that prepares students for a moot court competition on campus and in Washington, D.C.

## COLLEGE OF MUSIC

### **As One: Authenticity, Compassion and a Transgender Story**

**Associate Professor Charles Wetherbee**

The opera *As One* garnered national acclaim for its portrayal of a transgender person's journey, a topic rarely portrayed in media forms. This production aims to bring awareness to the lives and realities of trans people in collaboration with the Dairy Arts Center, Out Boulder, and the CU Boulder Center for Inclusion and Social Change.

### **Middle School Ensembles Program**

**Associate Professor David Rickels, Associate Professor Leila Heil and Professor Margaret Berg**

This program provides local middle school students with an additional musical ensemble experience through a partnership with band and orchestra teachers in Boulder Valley School District and the Boulder Children's Chorale. Undergraduates are able to hone their teaching skills, and high school interns learn about teaching music as a career. Another goal this year is to commission a new work for middle school band.

### **Piano for Dreamers**

**Professor Alejandro Cremaschi**

Through this partnership with the "I Have a Dream" Foundation of Boulder County, graduate and undergraduate students provide free introductory piano classes to third- and fifth-graders who cannot afford lessons. The elementary school students learn to read and interpret music notation and symbols, perform simple songs and compose pieces.



CU Boulder music students teach piano to area elementary students. *Photo by Jessie Bauters, CU Boulder*

## RESEARCH INSTITUTES

### **CU Restoration Ecology Experiential Learning Program**

**Professor Emeritus Timothy Seastedt**

*Department of Ecology and Evolutionary Biology and Institute of Arctic and Alpine Research (INSTAAR)*

This partnership with Nature Kids/Jovenes de la Naturalez, the Wildlands Restoration Volunteers youth program and area high schools combines learning with hands-on restoration of landscapes. CU Boulder undergraduates work with underserved youth in the community to introduce them to ecological restoration, environmental science careers, and ways to improve air and water quality.



Legacy High School students plant trees in Broomfield as part of a restoration ecology project. Photo by Cathy Tate

### **Fire Adapted Bailey: Launching an Evidence-Based Approach**

**Assistant Research Professor Hannah Brenkert-Smith**, *Institute of Behavioral Science*

As the U.S. grapples with devastating wildfires, national wildfire officials are recognizing that gathering information from local communities will help create better wildfire public policy. In partnership with Fire Adapted Bailey, a nonprofit serving 68 fire-prone communities in Park and Jefferson counties, this project will gather key data about homeowner attitudes toward wildfire risk, risk mitigation behaviors and responses to incentives to mitigate risk.

### **Girls at the Museum Exploring Science (GAMES)**

**Assistant Professor Jingchun Li**

*CU Museum of Natural History and Department of Ecology and Evolutionary Biology*

**Education Coordinator Cathy Regan**, *CU Museum of Natural History*

GAMES encourages fourth- through eighth-grade girls who are low-income and/or Latina to pursue their interest in science. Weekly after-school visits to the CU museum allow the students to explore archaeology, botany, entomology, paleontology and zoology through hands-on activities and direct interaction with scientists and museum professionals.

## INTERDISCIPLINARY AND FACULTY GROUP AWARDS

### **Boulder Affordable Housing Research Initiative**

**Associate Professor Jennifer Fluri**, *Department of Geography*

**Associate Director Abby Hickcox**, *College of Arts & Sciences Honors Program*

**Program Director Sabrina Sideris**, *INVST Program, CU Engage*

Boulder County and Denver area residents who are looking for affordable housing find few options, an issue that local nonprofits and municipal groups are trying to address. Through this initiative, CU Boulder researchers are partnering with many Boulder and Denver organizations to collect and share data about affordable housing that can be used to design more effective public policies in response to this housing crisis.

### **Bringing Colorado's Latino History and Culture to Light**

**Distinguished Professor Emerita Marjorie McIntosh**, *Department of History*

**Senior Instructor Kent Willmann and Lecturer Flora Sanchez**, *School of Education*

**Associate Professor Arturo Aldama**, *Department of Ethnic Studies*

The Latino History Project is a collaborative, grassroots initiative that is documenting and preserving Latino history. CU Boulder researchers are partnering with community groups in Boulder County, Pueblo, Alamosa and Trinidad to collect historical information about Latinos in these communities, creating extensive online K-12 resources for teachers and the public, and providing workshops on how to use them.



A CU Boulder faculty member and students research Colorado's Latino history. Photo by Patrick Campbell, CU Boulder

## Communities Code: Engaging Underrepresented Youth in Creative Computing

Associate Professor Eliana Colunga, *Department of Psychology and Neuroscience*  
Assistant Professor Ricarose Roque, *Department of Information Science (CMCI)*  
Director Stacey Forsyth, *CU Science Discovery*

Through this program, faculty, staff and students join with the Boulder Valley School District, Boulder Housing Partners, Partners Bridging the Digital Divide, rural schools and public libraries to offer technology-focused classes to K–8 students and training for teachers. Classes are designed for girls, students of color and other underrepresented students to increase interest and confidence in computer science, partnering with families to enhance learning.



The Communities Code program partners with families to help students learn computing skills. *Photo by CU Science Discovery*

## Co-production of Embodied Climate Curriculum Gains STEAM

Associate Professor Beth Osnes, *Department of Theatre & Dance*  
Assistant Professor Carl Simpson, *CU Museum of Natural History and Department of Geological Sciences*  
Senior Educator Jim Hakala, *CU Museum of Natural History*  
Doctoral Candidate Patrick Chandler, *Department of Environmental Studies*

An ongoing CU Boulder outreach program brings free kits containing real and cast fossils as well as lesson plans to schools statewide, and this new project is piloting additional ways to teach the curriculum. Working closely with teachers at Stober Elementary School in Jefferson County School District, the CU Boulder researchers are designing curricula that will help fourth- and fifth-graders learn about natural history through theatre, dance and movement.

## CU Japanese and Japanese American Community History Project

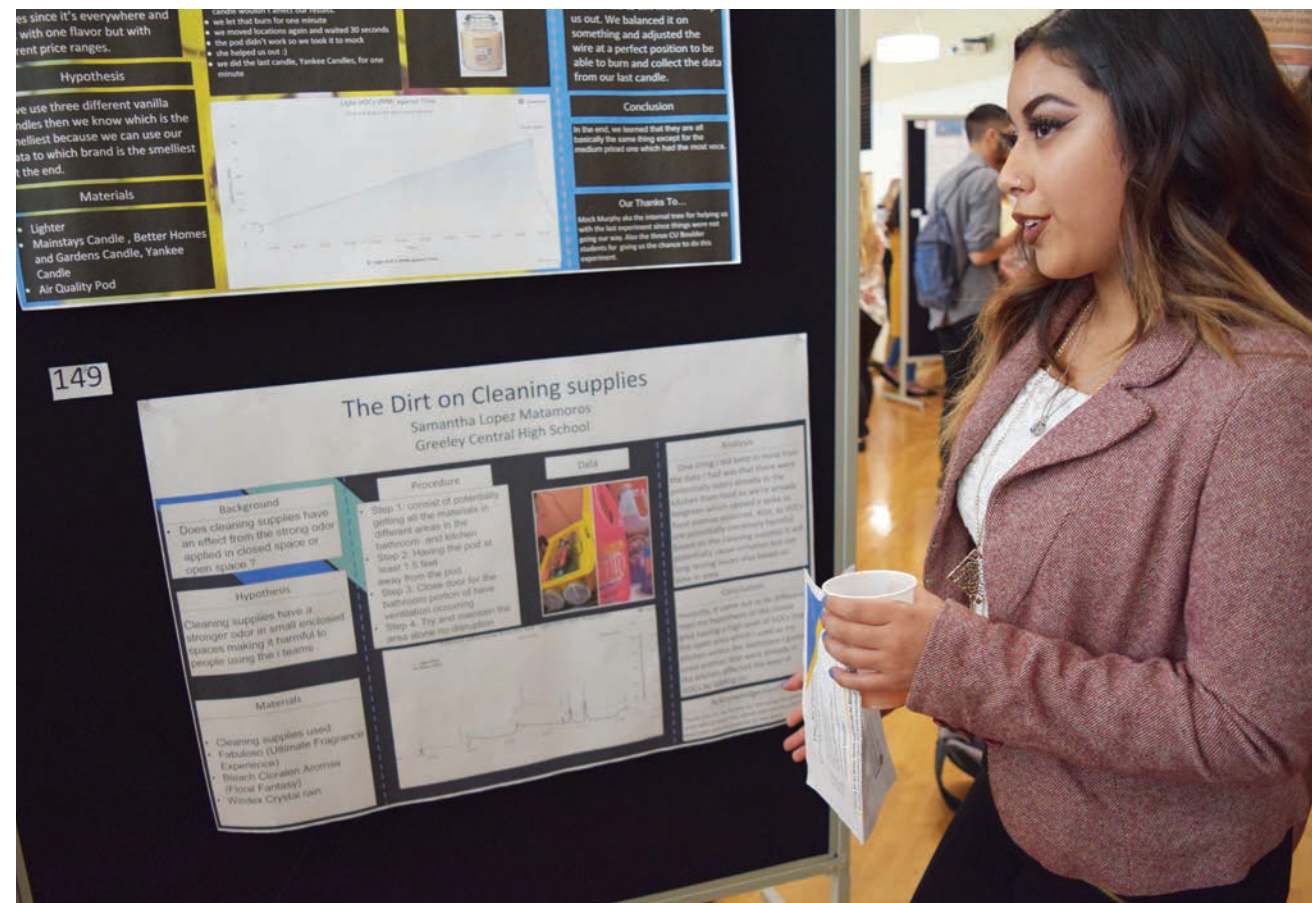
Assistant Professor Megan K. Friedel, Assistant Professor Adam Lisbon, Archivist David Hays,  
Communications Program Manager Michael Riberdy and Digital Imaging Technologist Adrienne Wagner  
*University Libraries*

This year marks the 75<sup>th</sup> anniversary of the end of Japanese American internment in the United States. As part of this commemoration, the University Libraries is partnering with Japanese organizations in Colorado to document the history of Japanese and Japanese American students, faculty and staff at CU Boulder during World War II and after. Photographs, letters, films, recordings and more will be accessible online and in the CU Boulder Archives.

## Engineering and Science Inquiry Projects in Rural Schools

Senior Professional Research Associate Daniel Knight and Professor Michael Hannigan  
*Department of Mechanical Engineering*  
Associate Dean Joseph Polman  
*School of Education*

This program provides students from high schools in Delta, Weld, Washington, Yuma, Mesa and Arapahoe counties with the opportunity to conduct engineering research. The high schoolers work closely with their teachers and CU Boulder researchers to design projects that investigate local air quality issues, collecting samples using air quality monitors designed by Hannigan's research group. Researchers are also piloting biological engineering projects.



A Greeley high school student presents her original air quality research. *Photo by Oksana Schuppan, CU Boulder*

### **Indigenous Connections at Rocky Mountain National Park**

**Professor Patricia Limerick and Research Associate Brooke Neely**, *Center of the American West*

**Associate Professor Clint Carroll and Assistant Professor Angelica Lawson**

*Department of Ethnic Studies and Center for Native American and Indigenous Studies*

**Professor Andrew Cowell**, *Linguistics and Center for Native American and Indigenous Studies*

This partnership among Rocky Mountain National Park (RMNP), tribal nations and CU Boulder researchers is helping to deepen and expand the way information is shared about Native Americans who have connections to the region. The park is developing new exhibits and programs to better represent indigenous histories and ongoing tribal relationships to the area that will open in 2020.



RMNP staff, tribal nation members and CU Boulder researchers are developing new park exhibits. *Photo by Kim Greenwood, National Park Service*

### **Partnership to Strengthen Systemwide Science Education**

**Professor Erin Marie Furtak, Assistant Professor Melissa Braaten and Doctoral Candidate Caitlin Fine**

*School of Education*

Colorado adopted new academic standards for science in 2018 that incorporate everyday, practical approaches to teaching scientific content. The Aurora Public School District is implementing the new standards and asked School of Education researchers to help them develop culturally and linguistically responsive units and assessments that accurately measure student progress.

### **Past, Present, Future: Exploring Boulder's Natural Environment**

**Professor Katharine Suding**

*Department of Ecology and Evolutionary Biology and Institute of Arctic and Alpine Research (INSTAAR)*

**Professor Suzanne Anderson and Associate Professor Noah Molotch**

*Department of Geological Sciences and INSTAAR*

**Education and Outreach Coordinator Alexandra Rose**, *Niwot Ridge Long-Term Ecological Research Program*

**Professional Research Assistant Eric Parrish**, *INSTAAR*

**Associate Director Sabre Duren**, *Hydrologic Sciences Graduate Program and INSTAAR*

The Boulder Creek Critical Zone Observatory, the Niwot Ridge Long-Term Ecological Research Program, and the Center for Water, Earth Science and Technology have partnered with the Museum of Boulder to create a bilingual art exhibit of the Boulder Creek watershed and a climate change awareness program at the museum. The goal is to share educational resources with youth and adults that explain the changing Boulder environment.



High school students sample macroinvertebrate diversity in the Boulder Creek Watershed. *Photo by Kelly Loria, CU Boulder*

## **Shakespeare and Violence Prevention in Schools**

Senior Research Associate Beverly Kingston and Research Assistant Laurie Keith

*Center for the Study and Prevention of Violence*

Associate Professor Kevin Rich and Associate Professor Tamara Meneghini

*Department of Theatre & Dance*

Outreach Director Amanda Giguere and Outreach Coordinator Heidi Schmidt, *Colorado Shakespeare Festival*

This project works to reduce bullying and violence in Colorado schools. Using the latest anti-bullying research, faculty, staff and students have created Shakespeare performances and workshops for students in grades 3–12. The goal of the project is to spark conversations about violence and school safety, and how to speak out against bullying. Plays this year include *The Tempest* and *Romeo and Juliet*.



Colorado Shakespeare Festival presents its anti-bullying program in area schools. *Photo by Jennifer M. Koskinen*

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## **BROCHURE DESIGN TEAM**

### **Editor**

Sue Postema Scheeres

### **Design & Production**

Emily Musumecci

### **Copy Editor**

Paul Beique



## **Serving Colorado, Engaging the World**

Discover how CU Boulder faculty, staff and students are reaching out and impacting communities around the state and beyond.



[colorado.edu/outreach/ooe/outreach-awards](https://colorado.edu/outreach/ooe/outreach-awards)

**Be Boulder.**