

# GEOGRAPHY

 University of Colorado Boulder

## 2019 Fall Newsletter



**Mark Serreze**

Professor, Department of Geography

Director, National Snow and Ice Data Center

Arctic climate scientist

College of Arts & Sciences Professor of Distinction

University of Colorado Distinguished Professor

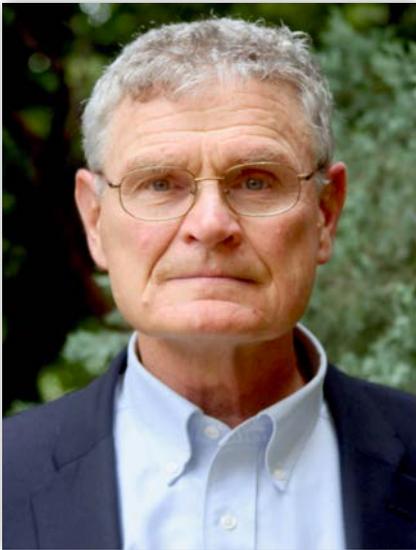




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*Bill Travis: Message from the Department Chair*



Professor William Travis

At the end of each Fall and Spring semester the department hosts a commencement ceremony for our graduates. In May we are often on the Quad in front of Guggenheim, amid glorious spring weather. In December (when I write this note, with snow still piled up from a Thanksgiving storm) we squeeze graduates, families, friends, faculty, and all into “cozy” Guggenheim. Both are joyous events, fueled by the high spirits of our graduates. Commencement is a moment to recognize accomplishment. During the festivities, the speeches all reflect that, but they also note the transition underway, so it’s no surprise that most commencement speakers take a moment to admonish graduates to look ahead, to go out and do good things with the skills they’ve learned in the classrooms, the GIS lab, and the field; to fix the world’s problems. Another commencement message is that while our grads are out there we’d like to hear back from them, and this newsletter carries some of what we hear. Send us your updates and news notes. Commencement is also a great time to visit the department, to sit on the Quad (if it’s spring) or get coffee on the “The Hill” (if it’s winter).

Another good time to visit the department will come this spring, on April 5, 2020, when we host a gathering of CU’ers attending the Association of American Geographers’ annual meeting in Denver. Watch our website for details!



## *Editors' Comments*

In this edition of the newsletter, we are pleased to introduce new faculty members, assistant professor [Morteza Karimzadeh](#) and instructor [Heide Bruckner](#). Please see their articles starting on page 8. Assistant professor [Azita Ranjbar](#) also recently joined our department. Her article of introduction will be published in our Spring 2020 newsletter.

It's been wonderful to hear from our alumni and other friends this past year. Please keep in touch with us, including with any suggestions and comments you may have. Alumni news articles provide a good way for current students to understand the possibilities ahead. Additionally, faculty and other alumni enjoy hearing of the progress of our graduates. If you are an alumnus, please consider filling out the easy-to-use [alumni updates tool](#) tab on our website in the gold bar just above the main menu. We would love to include your news in a future newsletter.

If you are viewing this newsletter electronically, the links in the Table of Contents above are active and can be used to navigate the magazine. Other links within the document, such as the first occurrence of a Geography professor's or student's name are active as well. The black header ribbon of each page links back to the Table of Contents. For the best viewing experience, drag your browser window corners to the same size as a newsletter page. The newsletter can be downloaded and printed or forwarded to others as you wish which helps us generate interest in the department.

And finally, please don't forget the [donations page](#) at the end of this newsletter and in the gold bar above the main menu on our [website](#) titled "[Giving Back](#)". The generosity of our alumni funds our scholarships and supports our students. We are forever grateful because we can't do it without you!



Geography graduate students gathering for their end-of-year party at Under The Sun in Boulder.



## *Mark Serreze Named Distinguished Professor*

With approval Sept. 13 by the Board of Regents, the University of Colorado introduced seven newly designated distinguished professors from across the campuses of the CU system, one of whom is our very own [Mark Serreze](#).



Mark Serreze

Distinguished professors are faculty members who demonstrate exemplary performance in research or creative work, a record of excellence in classroom teaching and supervision of individual learning, and outstanding service to the profession, the university and its affiliates.

The CU campuses nominate faculty for the award, the highest honor bestowed upon faculty across the system's four campuses. The University President then reviews the nominations and, with the recommendation of the Distinguished Professors Committee, forwards the candidates' names to the Board of Regents.

In recognition of this prestigious honor, we recently interviewed Professor Serreze.

### ***What does being named Distinguished Professor mean to you?***

Whether it be research, teaching or service to the department, the university and beyond, I've always tried to do my very best, but the same can be said of any of our faculty. While I take pride in what I have accomplished, I am acutely aware that I do not stand alone. In this department, I am surrounded by excellence.

### ***What made you decide to pursue a degree in Geography?***

I grew up in coastal Maine close to the outdoors and spent a lot of time exploring the woods, fishing off the docks for flounder and tomcod, digging clams, doing daredevil sledding, berry picking, and looking at the stars and planets. Free-range parenting was pretty much the norm back then, and from my unsupervised wanderings and sometimes foolhardy experiments I got to know a lot about the natural world. I was always asking questions about how things worked and how things fit together. I've been a geographer since age five; I just didn't know it back then.

### ***Did you have any mentors or role models along the way? How did they help you?***

If I had a role model, it was probably Ray Bradley, a Professor at UMass Amherst where I got my Bachelors and Masters degrees. Ray earned his PhD in Geography right here at CU. He provided me with my first opportunity to travel to the Arctic; I spent parts of two summers with him on and around a little ice cap on northern Ellesmere Island. While those field experiences were invaluable, Ray taught me something much more important: how to think like a scientist. What I learned from Ray is that being a scientist is very much like being a



Photographic evidence Mark didn't always have a beard. Kennebunkport ME, 1971.



Near Barrow Alaska, measuring snow depth, 2008.

detective. You need a dogged determination to hunt down clues, analyze evidence, and play on hunches. You need to formulate theories and leave no stone unturned in the pursuit of truth. His lessons have served me well.

**Can you tell us an impactful story that inspired your career?**

A lot of what got me to where I am was growing up in Maine. We had very real winters, so I naturally learned a lot about snow and ice, and greatly enjoyed watching commerce grind to a halt during a big nor'easter. One on the dumbest, albeit most educational things I ever did was ride an ice floe down the Kennebunk River with my best friend Dave. We nearly drowned, but I learned a great deal about the behavior of floating ice.

**What was the department like when you started compared to now?**

I first came to the department in 1986 as a PhD student. I obviously never left. What was it like back then? The Department was smaller, the faces were different and everything was decidedly more analog. But a lot of things haven't changed, notably, the dedication of the faculty and the unmistakable musty smell and creaking stairways of Guggenheim.

**What makes you hopeful for the future?**

We have not been good stewards of our planet. We are facing growing environmental problems, and climate change is just one of them. But I sense the tide is turning. Eyes have opened. Yes, many are still stuck in the past, but younger generations are taking charge and looking towards the future.

**What advice can you give to students about their careers and the study of Geography?**

Geography is about places and relationships between people and their environments. Some of us focus on the physical and biological aspects of our planet, while others focus on human societies. What binds us is the connections. Geographers are well positioned to address the challenges our world is facing, but success only comes with hard work and dedication. Advances in science and society have always been driven by a small number of highly motivated people with a passion for discovering the truth. One can lead, follow or get out of the way. Aspire to be a leader. Always aim as high as you can.



Ellesmere Island, 1982.



Griffith Island, then NWT Canada, after-hours entertainment (around midnight), 1991.



## *The Boulder Affordable Housing Research Initiative*

The Boulder Affordable Housing Research Initiative (BAHRI) began in 2015 as a service research project funded by the Office of Outreach and Engagement at CU Boulder. BAHRI has received outreach funding over the course of four academic years, 2015-16, 2016-17, 2017-18, and 2019-2020. The research team has produced several reports for various community partners, which can be found on the [BAHRI website](https://www.colorado.edu/bahri/) (<https://www.colorado.edu/bahri/>). This academic year BAHRI has extended its geographic focus to include the Denver Metro area, and conduct research on evictions and homelessness.

The Denver Metro area and Boulder County have been experiencing extensive increases in housing costs. Many residents living in or seeking affordable housing options experience marginalization and stigmatization. Homelessness is also on the rise, as low-income individuals who cannot afford housing turn to living out of vehicles, sleeping in shelters, or on the streets. Several non-profit and municipal organizations are working to address the rising cost of housing and seek to provide more affordable options to low and middle-income residents. These organizations include the City of Boulder-Housing Division, Coalition of Manufactured Home Owners Boulder, Thistle Communities, Boulder Housing Coalition, and Boulder Housing Partners. Despite these efforts, the need for affordable housing options far exceeds availability.



Affordable housing units in Boulder, CO



The Boulder Affordable Housing Research Initiative (BAHRI) works in partnership with these organizations to gather useful information about the experiences of individuals living in and seeking affordable housing. BAHRI has been asked by the City of Boulder, Thistle Communities, and the Boulder Housing Coalition to assist with the collection and analysis of data related to their respective affordable housing communities. Additionally, the Carnegie Library has partnered with BAHRI to collect oral histories from Boulder residents about their affordable housing experiences. These organizations have sought BAHRI's assistance in an effort to better serve their residents and develop creative and innovative ways to increase affordable housing availability in Boulder County and the Denver metro area. BAHRI gathers information through qualitative research methods such as surveys/questionnaires, interviews, focus groups, and oral histories along with geographic visualization such as maps to illuminate experiences of housing insecurity in Boulder and Metro Denver. Our community partners are interested in understanding the experiences of low- and middle-income individuals/families in order to improve service delivery, and to challenge social stigma associated with affordable housing.

This project provides CU Boulder graduate/undergraduate students with training and opportunities to gather data through collaborative research processes with community partners. BAHRI's goals correlate with CU Boulder's strategic imperatives: shaping tomorrow's leaders, being a top innovation university, and positively impacting humanity. BAHRI helps shape leaders by mentoring students to develop critical thinking, cross-cultural communication, research, and project management skills. For example, an INVST undergraduate familiar with Participatory Action Research methods will work on race-conscious, community partner-driven, and action-oriented processes with Denver Homeless Out Loud (DHOL) to learn: 1) when people are forcibly removed from their

homes where do they go? and 2) when developers build new property, there is a requirement to build affordable housing. However, DHOL is unclear about the location of these units and have asked INVST/BAHRI to map them. Since public money is dedicated to affordable housing, rigorous and inclusive public oversight is needed to identify how these funds are being allocated. Providing our community partners with community engaged research will ultimately help them to develop policy proposals and communicate with public officials, in an effort to better respond to the spatial and situational housing crisis.



Jennifer Fluri

The co-directors of BAHRI are [Jennifer Fluri](#), Abby Hickcox, and Sabrina Sideris. Jennifer Fluri is an Associate Professor in the Geography Department. Abby Hickcox, who graduated with a PhD in Geography from CU Boulder, is the Assistant Director of the Arts & Sciences Honors Program. Sabrina Sideris is the Program Director for CU-Engage and INVST Community Studies.



## *Introducing Morteza Karimzadeh, Assistant Professor*



Morteza Karimzadeh

I am a spatial data scientist, with research and contributions cutting across geographic information retrieval, machine learning, geovisualization, and visual analytics. My formal training is in Geography and Engineering. Prior to joining CU Boulder's Department of Geography, I worked as a postdoctoral researcher at Purdue's School of Electrical and Computer Engineering. I also held a Lecturer appointment at the Ohio State University after earning my Ph.D. from Penn State's Department of Geography.

I conduct integrative research which brings together data science with social/environmental science to make society a more sustainable and equitable place. Mostly focused on method development and evaluation, my research spans various domains including social media analytics, energy (resilience and production), crisis management, situational awareness, precision agriculture, and digital humanities; and I am always excited about applying my expertise in other domains.

While computational, my approach to research and development is human-centered, from visual/system design to algorithm integration and evaluation, to domain deployment and field studies. My visualization-related work in the past couple of years has focused on visual analytics for human-in-the-loop machine learning aiming to (1) develop flexible, performant computational methods leveraging human expertise for dynamic situations (that do not lend themselves to one-off training/deployment), and (2) helping users understand machine learning methods output/biases when applied to geospatial data, falling under what is commonly known as explainable artificial intelligence. Examples include our recent projects on (a) human-in-the-loop learning of topic-relevance in social media data for real-time situational awareness, and (b) interactive feature exploration/selection in hyperspectral imagery using domain knowledge for building optimized regression methods for forecast precision agriculture.

A large portion of my research has focused on developing methods for enabling the use of geographical information embedded in textual data, a field of research formally known as Geographic Information Retrieval (GIR). GIR integrates GIScience, information extraction/retrieval, natural language processing (NLP), and spatial indexing/search for (geographic) data extraction, storage, analysis and visualization. While the overwhelming majority of all data in digital form exists as text, unstructured text has not been well-supported by either GIScience theories or existing GIS tools.

I have developed visual analytics and GIR methods extracting and disambiguating place references in (social media) text in a scalable manner to support situational awareness in



crisis management. My dissertation research culminated in two systems and one annotated dataset. Most notably, I developed GeoTxt, a geoparsing software which identifies and geolocates place references in text, which has been used by multiple research projects in various universities. In addition, I developed GeoAnnotator, an interactive semi-automatic annotation system for creating geo-labeled datasets for training/evaluation of machine learning models or spatial linguistics studies.

More recently, my text- and GIR-related work includes interactive learning of topic relevance in social media data, interactive identification of social (media) spambots and troll campaigns, geolocation estimation of social media posts, and developing spatio-textual embeddings for GIR.

I am very fortunate to be joining CU Boulder’s Department of Geography with such a diverse spectrum of expertise and backgrounds. I am particularly looking forward to expanding the environmental and social science components of my work by establishing collaborations on projects addressing urgent societal needs, and to work with our bright graduate students who will be the next generation of scholars advancing our field.

## *Introducing Heide Bruckner, Instructor*



Heide Bruckner

As a geographer fascinated by food and agriculture, my work is invested in cultural and political-economic questions about equity in our food systems. I come to Boulder with a background in both practical and academic experience in food and farming. I completed my PhD in Geography in Austria in 2018, and hold a Master’s degree in Geography from the University of Arizona, Tucson and a BA from Vassar College in Poughkeepsie, New York. However, I have also worked in farming as an agroecology apprentice at the University of California, Santa Cruz, as a grower on a Community-Supported Agriculture farm, as a worm composting instructor, and as an urban gardener. Thus, I am just as excited by reading as I am harvesting potatoes and organizing communities. I look forward to building on the strong tradition in Geography of community-based research and activism.

My early experience focused on building inclusive urban food environments, especially for immigrant and resettled refugee communities in the US. Using a lens of political ecology, I explored issues of structural and relational barriers to food access for recently resettled Somali Bantu families in San Diego, and for Bhutanese families in Tucson. My Master’s project extended this work into an access analysis of urban agriculture opportunities for refugee families in Tucson. These recommendations helped support a culturally-relevant ‘seed library’ program at the local libraries, where community members can now check out native seeds to grow their own gardens.



Dressed for a potato festival in the Sacred Valley, Peru.

For several years, I lived and worked in Honduras, supporting farmer-to-farmer training programs. There, I researched the tensions between community-led food sovereignty movements and the opportunities (and pitfalls) of export-oriented crop production. Particularly inspiring to me has been the ways subsistence communities in western Honduras exemplify creativity in mobilizing resources (and staying resilient) within a precarious political and economic climate.

Through my involvement with the Indigenous People’s Climate Change Assessment in Cusco, Peru, I was able to synthesize broader findings of socio-ecological adaptation to climate change for an international audience at the Conference of Parties (IPCC) meeting in Lima. A central piece of my research was bringing together indigenous and

scientific understandings of climate change, specifically within the potato-growing regions of the Andes.

During my PhD program in Austria, I examined the rise of “happy” meat, and the affective and emotional politics of animal welfare program in the European Union. I developed an interest in human-animal geography and the more-than-human aspects of political ecologies of food, drawing heavily on relevant feminist scholarship.



Preparing lunch, from the school garden. Nueva Esperanza, Honduras

Finally, in Boulder I have begun an initiative to research with local food justice organizations. I am currently working with Boulder Food Rescue to better understand the experience of food insecurity in Boulder. More specifically, I am focused on the emotional landscape of stigma and anxiety around hunger, and the ways it acts as a barrier to participation in food assistance programs.

Through these and other projects, I seek to extend my past work on emotion and affect around food, and equity and participation in “alternative” food systems—all while drawing on the rich toolkit of post-structural political ecology.

At CU Boulder, I look forward to engaging with students on topics surrounding food and agriculture, as well as developing new collaborations for community-based undergraduate research, internships and professional development opportunities.



*Emily Yeh*

*Sabbatical Notes: Post-disaster trajectories in mountainous Chinese village*

One of the projects I worked on while on sabbatical in Chengdu, China in the last academic year concerned longterm trajectories of recovery after the 2008 Sichuan (Wenchuan) earthquake, which killed 87,000 people and left nearly 8 million homeless. The Chinese government’s rapid emergency response has been widely praised as an example of “building back better,” because of the way it integrated recovery into already-existing development strategies, but few studies have been done of long-term trajectories of household recovery following the earthquake. I worked with a professor at Sichuan University to conduct an in-depth study of household experiences in a severely affected mountainous village in Pengzhou City, which is under the jurisdiction of Chengdu Municipality, the capital of Sichuan province.



Photo 1: Debris flow from flooding, example of secondary earthquake hazards

Prior to the earthquake, 90% of the village farmland had been reforested as a result of environmental protection measures, and villagers’ income derived largely from home guesthouses popular with visitors escaping the heat of Chengdu in the summer or those visiting a nearby scenic area. We found that even within this single, relatively homogenous village, trajectories after the earthquake diverged significantly. Some residents had no choice but to move from their scattered hamlets to a centralized, concentrated settlement, because their farmland or houses had been expropriated for real estate construction right before the earthquake, because their land had been made unusable by the earthquake, or because their land was expropriated for the concentrated settlement itself. Ten years on, we found that these households face significant barriers to income generation and inadequate housing to accommodate demographic growth and family reproduction.

On the other hand, among those who were able to rebuild on their pre-earthquake lots, we found that changing policies over time, driven by shifting development visions and construction regulations, together with secondary earthquake hazards, created significant differentiation. Households with the means to rebuild their home guesthouses right away were able to take advantage of favorable construction policies. Those who did not have the means, however, and who waited, were subject to much stricter regulations as the local



Photo 2: Residential building with 3 units of 11 square meters each

provisions for those who have suffered from later events, and the proposed solution is instead relocation to a place where livelihood prospects would be more difficult. Thus, some households have experienced the post-earthquake period as an acceleration of development, whereas others experience a sense of moving backwards in time to a less-developed status. These differences can be seen visually in the stark contrast between the 11 square meter housing that some households live in (photo 2) and the lavishly rebuilt guesthouses that others are operating (photo 3). This reminds us that recovery from an earthquake (or other disaster) cannot be considered a single, discrete event, but rather



Photo 3: Lavishly rebuilt guest houses

state has shifted toward a desire to promote more corporate “high-end tourism” rather than household tourism activities. Furthermore, secondary earthquake hazards including debris flow and flooding (see photo 1) have also resulted in inequality, as there are no further government

must be understood through long-term trajectories that intersect with both political processes and place-based events. It also complements recent research that has shown that in the US, the ways in which post-disaster aid policies are designed and implemented have led to the exacerbation of wealth inequality.



## *Alumni Updates*

### *Jeff Frubwirth, BA, 2007*

I work for [Western Ecosystems Technology, Inc.](#) in Laramie, WY. The company provides environmental and statistical consulting services and contract research nationally and internationally for industry, government, and private organizations. I have been working in the field since I graduated.

### *Martin Price, PhD, 1988*

*Professor Martin Price FRSE is the UNESCO Chair in Sustainable Mountain Development and Director, Centre for Mountain Studies at Perth College in Perth, UK.*

If you don't mind looking at [my webpage](https://www.perth.uhi.ac.uk/subject-areas/centre-for-mountain-studies/staff/professor-martin-price/) <https://www.perth.uhi.ac.uk/subject-areas/centre-for-mountain-studies/staff/professor-martin-price/>, it gives a good overview. Specifically on geography, I was the lead editor of '[Mountain geography: Physical and human dimensions](#)' (University of California Press, 2013: see <https://www.ucpress.edu/book/9780520254312/mountain-geography>)

Apart from mountains, the other main focus of my research has been biosphere reserves, and I am joint editor of the [first global book](#) on biosphere reserves, published late this year: see <https://www.routledge.com/UNESCO-Biosphere-Reserves-Supporting-Biocultural-Diversity-Sustainability/Reed-Price/p/book/9781138369320>

Geography has been the basis of my career, especially the links I developed through my supervisor, Jack Ives, and his close colleague in UNESCO's Man and the Biosphere Programme, Bruno Messerli of the University of Bern in Switzerland. It is through them that I became involved in the global mountain arena, starting with the preparations for the Rio Earth Summit in 1992.

Nowadays, my main involvement in geography is through the Royal Scottish Geographical Society, which is based in Perth, Scotland, where I live.

### *Patrick Cecil, BA, 2007*

*Financial Advisor at Merrill Lynch, and a Lecturer in Chapman University's History Department*

My Geography degree plays a fundamental role in my career. As a financial advisor with a background in higher education, I work with academics to plan for retirement and also to develop investment strategies that align with their values. Merrill Lynch's Impact Investing considers social, governmental, and environmental criteria when investing in companies. Within my Lecturer position at [Chapman University](#), Geography forms the bedrock of my classes, as I use the concept of "space" to show changing relationships over time and distance in such areas as the relationship between a government and its people, cultural and technological advancement, and shifting boundaries on a map.

I find my way back to Boulder a few times each Fall for football season. CU Boulder is still one of the most beautiful campuses in the nation!



## Department News

### George Charisoulis

George Charisoulis was awarded the GIS-in-the-Rockies (GISITR) Graduate Fellowship. GISITR is a professional society of geospatial science, commerce and industry members in the Rocky Mountain West (Idaho, Montana, Wyoming, Nevada, Utah, Colorado, Arizona, and New Mexico). His award recognizes his doctoral research on location modeling of renewable energy sites using simulation and intelligent spatial search. As part of his award, George presented his work at the GISITR annual conference held in Denver in September.



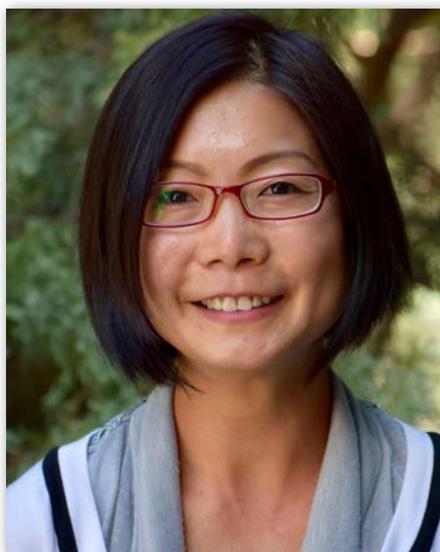
George Charisoulis

### Professor Seth Spielman appointed chief data strategy and analytics officer

Carla Ho-a, associate vice chancellor for finance and business strategy and deputy chief financial officer, named Seth Spielman as chief data strategy and analytics officer.

Seth joined the CU Boulder community in 2010 as an associate professor of geography, and also holds affiliations with CU Boulder's Institute of Behavioral Science (IBS) and Information Science.

From 2015 through 2019, Seth worked at Apple Maps, where his work included building systems that used machine learning to improve map-based navigation and search, and coordinating international data collection projects. Throughout his career, Seth's work has focused on the intersection of data science and maps. He's published over thirty articles, co-authored a book on urban analytics, led over \$1.5 million in National Science Foundation awards, and received awards from American Association of Geographers, the American Statistical Association and the Breheny Prize for work in urban science.



Xiaoling Chen

### Xiaoling Chen

The study *Barriers to Achieving "Economic Self-Sufficiency": The Structural Vulnerability Experienced by Refugee Families in Denver, Colorado* was recently published in *Human Organization*. It was authored by Xiaoling Chen, PhD student of Geography at the University of Colorado Boulder, and Eloiss Hulsbrink, MA, at the Colorado Department of Health Care Policy and Financing. The pair conducted the research with the support of CU Denver's Anthropology department and mentor Sarah B. Horton, associate professor, as they pursued master's degrees in anthropology. For the study, Chen and Hulsbrink focused on Somali refugees in Denver, CO, one of the largest refugee groups in the United States.



**Thank You!** *The Department of Geography is grateful to its alumni and friends for their financial support over the years. Our donors have had a big impact, making a difference not only to the Department as a whole, but to the lives of many individual students. There is always a real need for funds to support academic departments. As we strive for higher standards and more and better opportunities for our students, we depend on the caring and generous nature of alumni and friends like you to meet these ever increasing financial needs.*



*Your gift to the Department of Geography can take many different shapes. The information below may help you find the type of gift that best meets your needs, the impact you want, and the way you want to give. The CU Foundation can also assist you with your needs, be they for targeted or unrestricted programs.*

## Geography Department Fund

This fund is for academic support in the broad sense. If giving online and you want your gift to go to a specific scholarship, please provide scholarship name in the "Comments" section.

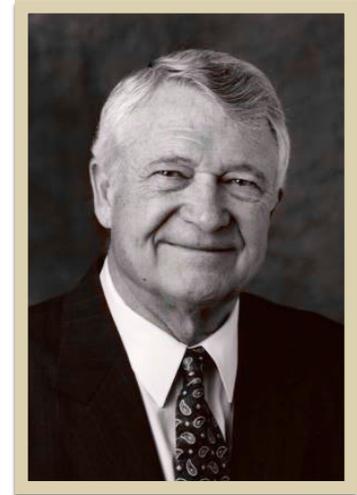
**GIVE NOW** Go online to: [giving.cu.edu/fund/geography-department](https://giving.cu.edu/fund/geography-department)

## Undergraduate Scholarship Programs

### *A. David Hill Scholarship Fund*

Established by Richard L. Knowlton, Professor Hill's former teammate and friend, and recently endowed by Myhra and Graham Hill, his wife and son. Preference for those with interests in the environment-society relationship. Award is based on merit and demonstrated financial eligibility.

**GIVE NOW** Go online to: [giving.cu.edu/fund/david-hill-endowed-scholarship-fund](https://giving.cu.edu/fund/david-hill-endowed-scholarship-fund)



A. David Hill

### *Albert W. Smith Geography Scholarship*

Established in 1983 to honor Professor Smith at his retirement from the Geography Department faculty after thirty-one years of service to the University.

**GIVE NOW** Go online to: [giving.cu.edu/fund/albert-w-smith-geography-scholarship-fund](https://giving.cu.edu/fund/albert-w-smith-geography-scholarship-fund)

### *Karl and Barbara von Dreden Stacey Scholarship*

Established by Katherine and Frank Baxter in honor of Katherine's parents, Barbara von Dreden (CU class of 1940) and Karl Stacey (CU class of 1936). This scholarship supports undergraduate students to engage in summer research with faculty.

**GIVE NOW** Go online to: [giving.cu.edu/fund/karl-and-barbara-von-dreden-stacey-scholarship-fund](https://giving.cu.edu/fund/karl-and-barbara-von-dreden-stacey-scholarship-fund)

### *Theodore C. Myers Memorial Scholarship*

Named in honor of long-time geography instructor Ted Myers. Scholarship is awarded to the undergraduate student with the most exceptional honors thesis.

**GIVE NOW** Go online to: [giving.cu.edu/fund/theodore-c-myers-memorial-fund](https://giving.cu.edu/fund/theodore-c-myers-memorial-fund)



## Graduate Scholarship Programs

### *Mable B. Duncan Scholarship Fund*

To support scholarships for Geography graduate students at the University of Colorado Boulder, based on financial need.

**GIVE NOW** Go online to: [giving.cu.edu/fund/mable-b-duncan-scholarship-fund](http://giving.cu.edu/fund/mable-b-duncan-scholarship-fund)

### *Gary L. Gaile DART Graduate Fellowship in Geography*

This fund, in memory of Professor Gary Gaile, provides a fellowship/scholarship for Geography MA and PhD students doing field research addressing social and environmental concerns in developing areas.

**GIVE NOW** Go online to: [giving.cu.edu/fund/gary-l-gaile-dart-graduate-fellowship-geography](http://giving.cu.edu/fund/gary-l-gaile-dart-graduate-fellowship-geography)

### *James A. and Jeanne B. DeSana Graduate Research Scholarship Fund*

This fund provides invaluable support for graduate student research.

**GIVE NOW** Go online to: [giving.cu.edu/fund/james-and-jeanne-b-desana-graduate-research-scholarship-fund](http://giving.cu.edu/fund/james-and-jeanne-b-desana-graduate-research-scholarship-fund)

### *Gilbert F. White Dissertation Fellowship*

Named in honor of Professor Emeritus Gilbert F. White, this fellowship provides funding to outstanding PhD. students in the final year of dissertation preparation.

**GIVE NOW** Go online to: [giving.cu.edu/fund/geography-department](http://giving.cu.edu/fund/geography-department)

*Please specify "Gilbert F. White Dissertation Fellowship" in the Comments field.*

### *Geography Graduate Student Support Fund*

To provide support for graduate students in the Department of Geography at the University of Colorado Boulder. Support may include research support and equipment purchases. Gifts to this fund can be made in memory of (IMO) **Jennifer Dinaburg**. Jennifer, a vibrant, active doctoral candidate in the Geography department, passed away on April 26, 2012 at the age of 31. In her memory, the department has established a small, named fellowship for doctoral field research.

Jenn was passionate about geography in many forms: through the environment, the outdoors, and through learning about China. After studying Chinese language and literature at Connecticut College, she traveled and worked extensively on the Tibetan Plateau. After a degree in environmental studies at Prescott College, her journey brought her to the Geography PhD. program in 2008 to study the commercialization of Tibetan medicinal plants in China's northwest Yunnan province. Jenn brought a love of mountains, travel, and unconventional learning to the department, where she was well loved for her sense of humor, wit and spirit.



Jennifer Dinaburg

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