Drone photo taken by Geography PhD student DEVON MALONEY in the Savanes Region of Northern Togo for a study on fine-scale remote sensing signals of land degradation in dryland West Africa during July 2022.
**LETTER from the Chair**

Do you remember the ‘a-ha!’ moment when you fell in love with geography and you found yourself on a path in life that you just didn’t anticipate? Mine happened somewhat late in my academic career. I was working on my MA in Public Policy at DU Boulder when I enrolled in my first Geography graduate seminar. It was a gem of a class with six students, taught by Anthony (Tony) Bebbington and Simon Batterby. We thought we were there to learn about how people living in rural places make a living, but instead we were asked to think about how life is also made meaningful. Everything that we discussed and read in that class made sense to me, and it was inspiring. I applied for doctoral study, Tony became my advisor for my PhD, and I became a card-carrying geographer.

I was reminded of this ‘a-ha’ moment when valued alumni and true friend of our department, Alex Robertson, shared some insights about his remarkable father, the late Julian H. Robertson. As Julian’s New York Times obituary attests, he was a “geography nut,” a term I think most of us here would feel very comfortable with geography and you found yourself on a path in life that you just didn’t anticipate? Mine happened somewhat late in my academic career. I was working on my MA in Public Policy at DU Boulder when I enrolled in my first Geography graduate seminar. It was a gem of a class with six students, taught by Anthony (Tony) Bebbington and Simon Batterby. We thought we were there to learn about how people living in rural places make a living, but instead we were asked to think about how life is also made meaningful. Everything that we discussed and read in that class made sense to me, and it was inspiring. I applied for doctoral study, Tony became my advisor for my PhD, and I became a card-carrying geographer.

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UNIVERSITY DISSERTATION RESEARCH FELLOWSHIP

Off-Campus Dissertation Research Fellowship from the UNC Graduate School, which provides funding for one semester to students with approaches to dissertation research — practical, trans- or interdisciplinary, collaborative, critical, or methodological. The second is the fellowship is designed to provide time and support for emerging scholars' innovative outputs include a multi-media, interactive digital public history of the site sourced from archival and of indigenous dispossession, plantation enslavement, and private immigrant incarceration. Research between private capital and the state, and material landscape changes at historic junctures why, in its centuries-long history, racialized confinement and private profit are continuously coupled Meherrin Nation. This research employs a mixed-methods public humanities methodology to explore located on the former site of a plantation, which in turn, was established on dispossessed land of the RCI is a Criminal Alien Requirement prison in Hertford County, North Carolina that is This research project asks how racial capitalism is reproduced in the US South. The Rivers Correctional Institution (RCI) is a Criminal Alien Requirement prison in Hertford County, North Carolina that is located on the former site of a plantation, which in turn, was established on dispossessed land of the Meherrin Nation. This research employs a mixed-methods public humanities methodology to explore why, in its centuries-long history, racialized confinement and private profit are continuously coupled in place, though in distinct forms over time. It explores this reproduction in and through the law, relationships between private capital and the state, and material landscape changes at historic junctures of indigenous dispossession, plantation enslavement, and private immigrant incarceration. Research outputs include a multi-media, interactive digital public history of the site sourced from archival and contemporary materials.

A N D R E I N A  M A L K I, UNC Geography PhD candidate, was awarded with two highly competitive fellowships for her research in the Spring of 2023. The first is the Mellon/ACLS Dissertation Innovation Fellowship, which supports graduate students in the humanities and social sciences who show promise of leading their fields in important new directions. The fellowship is designed to provide time and support for emerging scholars' innovative approaches to dissertation research — practical, trans- or interdisciplinary, collaborative, critical, or methodological. The second is the Off-Campus Dissertation Research Fellowship from the UNC Graduate School, which provides funding for one semester to students with an exceptional academic record, a clearly demonstrated research project, and a need to conduct research off campus.

Tracing Racial Capitalism in Place: Indigenous Dispossession, Plantations, and Private Immigrant Incarceration in North Carolina
This research project asks how racial capitalism is reproduced in the US South. The Rivers Correctional Institution (RCI) is a Criminal Alien Requirement prison in Hertford County, North Carolina that is located on the former site of a plantation, which in turn, was established on dispossessed land of the Meherrin Nation. This research employs a mixed-methods public humanities methodology to explore why, in its centuries-long history, racialized confinement and private profit are continuously coupled in place, though in distinct forms over time. It explores this reproduction in and through the law, relationships between private capital and the state, and material landscape changes at historic junctures of indigenous dispossession, plantation enslavement, and private immigrant incarceration. Research outputs include a multi-media, interactive digital public history of the site sourced from archival and contemporary materials.

Andreina MALKI
GRADUATE STUDENT SPOTLIGHT

How did you find geography?
I found the Geography major in a very roundabout way. At the end of my sophomore year, I attended a friend of a friend’s graduation party, and she happened to be a Geography major. After a 5-minute conversation about the major, I was sold.

How have your interests in Geography changed since you declared?
I originally planned to follow the Geography of Health and Disease track. I still take quite a few classes for this track, but I often find myself choosing classes outside the health and disease, especially those on the Diversity Justice and the Political Ecology track. All my classes have been interconnected despite being in different tracks, so I can really build on my own interdisciplinary interests!

What are you looking forward to most in your Senior year?
I’m most looking forward to working on the Geography Undergraduate Advisory Committee (GUAC) to plan events, provide a place where Geography students can meet, and increase the presence of the Geography department among undergraduates on campus.

CONGHE SONG

ONGHE SONG will assume the role of Chair of the UNC Department of Geography and Environment on July 1, 2023. Dr. Song joined the faculty of UNC Geography as an Assistant Professor in 2001 after completing his PhD at Boston University. In 2007, he was granted tenure and promoted to Associate Professor. He was promoted to the rank of Professor in 2014. In addition to being an extremely successful researcher, teacher, and mentor, Dr. Song has held numerous leadership positions within the department and the university, including serving as Associate Chair and Director of the GIScience Graduate Certificate Program.

What are your favorite aspects of UNC Geography?
Interdisciplinary scholarship in the department is my favorite aspect of Geography. Expertise in our department spans the entire Geography Continuum. Such an interdisciplinary department serves the undergraduate and graduate students well. It is also a great environment for faculty to develop research teams to address complex problems in the real world.

How has the department changed since you arrived in 2009? The department has changed a lot since I arrived both in terms of personnel make-up and expertise. Our department has many young senior faculty now, reflecting the success of our faculty. Many of our senior faculty are expanding their research portfolio to become increasingly interdisciplinary. This is a great trend which aligns well with Growing Convergence Research, one of the 10 big ideas at the National Science Foundation.

As chair, what are some of your priorities for the department in the upcoming years?
My top priority is to promote Geospatial Data Science in the College of Arts and Sciences and on campus with Geography as the leader. My second priority is equity of faculty salary and graduate student stipend with peer institutions. The third priority is promotion of diversity, equity and inclusiveness in the broadest sense in our Department.

I am humbled by the selection and excited for the opportunities to continue to strengthen Geography at UNC.

What were the successes in Betsy’s term as chair that you would like to build on?
I will continue to promote DEI in the department in the broadest sense. Promote Geospatial Data Science, which I believe can be called the second revolution in Geography after the quantitative revolution in the 1960s.

Is there anyone that played an important role in your life that led you to this leadership position?
The strong support from the colleagues in the Department and the vision alignment from the Deans for Geospatial Data Science were important factors. The other person is my wife. Although she did not make me take this leadership position, I know I can rely on her for support.

Join the mailing list to stay up to date on news and events at UNC Geography: https://www.geo.unc.edu/about/histories/
and transported, sometimes specifically through food webs, or through the emission of greenhouse gases. Like microbes and invertebrates interact. We study how these interactions affect the way that carbon and nitrogen is transformed, emitted, and recycled at different scales. The movement (or lack thereof) of water across different landscapes creates a physical and chemical template with which organisms like microbes and invertebrates interact. We study how these interactions affect the way that carbon and nitrogen is transformed, emitted, and recycled at different scales.

Please tell us about your research

As a socially engaged scholar, I prioritize research that contributes to both academic discourse and activism. Currently I am engaged in a NSF Macrosystems-funded project with the goal of using National Ecological Observatory Network (NEON) data to predict continuous greenhouse gas flux from 28 stream reaches across the US. Our goal is to synthesize this data, complement it with local data collection, and then expand to a prediction framework for other streams across the US and more broadly.

How did you find geography?

For much of my early career, I actually didn’t think much about geography. The biggest things on my mind were animal ecology, biodiversity conservation, and global change. As my thinking and experience developed, I realized the types of questions I found most interesting, the methods I was using to answer them, and the people with whom I was collaborating were rooted in geography.

What are your favorite parts about being a UNC Geography faculty member thus far?

I’m pretty excited about teaching right now. I had some teaching experience before coming to UNC, but not a lot. I was pretty sure that I would like it, but I did not expect it to be one of my favorite parts of my job. Maybe it’s because I spent the majority of my postdoc in my office by myself, but I really love interacting with students in the classroom and have learned so much in a short time.

How did you find geography?

Over the course of my scientific journey, I have expanded from intensive, site-specific studies of ecology, to progressively more spatially or temporally broad questions. In an effort to understand the importance and applicability of these site-specific findings. At the point when the UNC Geography position was advertised, I had been gravitating toward a more geographical approach to understanding freshwater biogeochemistry, specifically greenhouse gas flux and energetic processes, and daydreaming about working with a team to approach these questions. The more I learned about the various approaches and interdisciplinarity within UNC Geography, the more excited I became about a home for this research.

What were you doing before joining UNC Geography?

I was a research scientist at Duke University, mainly leading an NSF Macrosystems-funded project with the goal of using National Ecological Observatory Network (NEON) data to predict continuous greenhouse gas flux from 28 stream reaches across the US. Our goal is to synthesize this data, complement it with local data collection, and then expand to a prediction framework for other streams across the US and more broadly.

Please tell us about your research

In addition to expanding my own educational farm, I am also cultivating strategic partnerships with other earth sanctuaries in the North Carolina Piedmont where I expect to deepen my engagement with the questions of land, food production, and human-earth relationship that motivate my current research on sustenance. It is also a priority for me to connect my research with my teaching. In that spirit, I have developed a sequence of APPLES courses, Freedom Farming (GEOG 283), Beyond Sustainability (GEOG 294), and Agroecology (GEOG 390), in which students not only engage black and indigenous theories of land stewardship, but also enact those theories through service-learning projects on various local farms.

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How would you like to see your research develop in the future?

At the broadest level, my research is aimed at conserving biodiversity in the places that are changing the fastest. For example, coastal areas are inherently really dynamic because they occur at the interface between land and sea, but they are becoming increasingly dynamic as the global climate changes, sea levels rise, and extreme weather events become more frequent. Though many coastal species are well-adapted to dynamic environments, the speed of change combined with many decades of coastal development and land use change creates unprecedented challenges for many of these species.

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Claire STRACK

What did you enjoy the most about UNC Geography?
The variety of coursework options, which make it possible to explore a diverse array of topics within geography. I found this variety, combined with the supportive environment within the department, to be conducive to a learning experience that is very engaging.

How has your geography training prepared you for your current position?
My training in spatial data science taught me many of the R skills that I now use on a near-daily basis to prepare and analyze spatial data. My exposure to spatial data science began with the course GEOG 215: Introduction to Spatial Data Science, and evolved into undergraduate research where I applied the knowledge from the course under the supervision and guidance of Dr. Delamater. The technical background and problem-solving skills I gained from these experiences have played a crucial part in preparing me for my current role.

Do you have any suggestions for current UNC Geography students?
Talk to your professors/TAs! If there is someone in the department who works in an area you're interested in, I'd recommend talking to them.

About their work and interests, even if you're not in their class. Talk to your professors/TAs! If there is someone in the department who works in an area you're interested in, I’d recommend talking to them.

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Click on QR code to read more about Claire’s research on childhood vaccination in Pennsylvania.
BRINGING Southeast Asia HOME

The Carolina Asia Center received a $900,000 grant from the Henry Luce Foundation for the project BRINGING SOUTHEAST ASIA HOME. The grant supports Professor Lentz’s research in Southeast Asia and will enhance UNC’s ability to serve as the hub for Asian studies in the Southeast U.S. The project’s interdisciplinary team also includes Becky Butler (Linguistics), Angel Riso (Public Policy), and Noah Kittner (Gillings School of Global Public Health). In addition to supporting research activities, the grant will also provide targeted support for students with undergraduate summer research internships, graduate student dissertation completion awards, and a student working group.

When and where did the idea for this project originate?

The idea for BSEAH came out of a recognition that UNC had the potential to play a leading role in Southeast Asian Studies not only in the state but in the US Southeast. We in the US South have a large, diverse, and growing population of Asian Americans. But students coming to UNC or other system campuses had precious few resources to learn about their family origins and the connections that tie the regions, and all of us, together. Thus, we aim to open opportunities for all students and scholars to take part in study, exchange, and scholarship.

What does your role as Principal Investigator on the project entail?

The largest role I played was to draft a grant proposal, something that involved a whole lot of writing! The proposal included a very detailed budget, and I relied on talented team members to crunch the numbers. Prior to submitting the grant, we had started building relationships across campus and overseas both to strengthen the academic infrastructure on campus, including a Vietnamese-language program and to connect with institutions in the region. Those efforts continue, and it’s actually fun to be in a position now to support research, teaching, and other programs that build our profile in Southeast Asian studies.

How is your scholarship contributing to and benefiting from this project?

My training in Southeast Asian studies at Cornell and Yale helped me identify areas where UNC was strong and how it might improve. Furthermore, my scholarship in Vietnam and Indonesia underscored the significance of language training, overseas relationships, and deep contextual understanding as essential elements in any area-studies program. Our grant includes funds to support advanced research by graduate students and faculty across campus: these resources helped me return to Southeast Asia this year to do primary research for the first time since 2019, i.e. before the COVID-19 pandemic.

Please tell us about the research you are conducting as part of this project.

I’m working on several projects now, all of which originate in my ethnographic and historical work in Dien Bien Phu, site of Vietnam’s military victory over France in 1954. I wrote a book on that subject, and now I’m following up several leads, such as gender relations emerging from the formative encounter between ethnolinguistically diverse peoples and why the battle was so important to anti-colonial internationalists across the global south in the 1950s-60s. In Vietnam, I did archival research in Hanoi and Ho Chi Minh City on relations between Vietnam and Indonesia during the 1950s-60s.

Can you tell us more about how the teaching, research, and outreach aspects of the project work together?

Field research informs my teaching, and the relations that I build while doing research benefit student exchange. While at the National University of Singapore, I developed the partnership with UNC, helped restart the joint degree program (on pause while NUS and UNC revise curricula), and identified new exchange opportunities, including field trips to neighboring countries. Spending time there also meant that I collected materials—photos, books, experiences—that will become part of a unit on the Singapore/Indonesia borderlands in GEOG 121 “Geographies of Globalization.”

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UNC GEOGRAPHERS in the field around the world in 2022–23

Michelle Eirini Padley
San Antonio, TX | Summer, 2022
I conducted fieldwork for my dissertation project, “Military Pasts, City Futures: The Transition of Brooks, San Antonio from Military Base to Urban Hub.” Through a study of Brooks — a former military base turned mixed-use development in San Antonio, Texas — I examine how post-military landscapes are reconfigured through gendered and racialized urban planning. During my fieldwork, I gathered information about different spatial strategies, policies, and marketing practices that have influenced development at Brooks.

Halle Evans
Banger, ME | June–July, 2022
I conducted a pilot study aimed to improve public health interventions and surveillance methods of Culex pipiens and Culex restuans, 2 West Nile virus vector mosquito species. The fieldwork involved monitoring different attractants at multiple residential sites around Bangor, Maine, to analyze methodology effectiveness on residential properties. Container habitats with still-standing water are common mosquito breeding sites and the use of attractants is important methods for mosquito surveillance. At each site, four treatment attractants and a distilled water control were directly compared by analyzing egg raft count as a measure of treatment effectiveness.

Kayla Emerson
Albemarle Sound, NC | Fall, 2022
I completed field work for my Senior Honors Thesis under the advisement of Dr. Lindsay Dubbs (Coastal Studies Institute). My research compares the carbon and nutrient storage of the ground and surface waters in two different marsh systems in the Albemarle Sound. I aim to understand the effects of salinity and wind influence on these parameters.

Kayla Emerson, Danielle Zarate, and Kriddie Whitmore
Cayambe-Coca National Park, Ecuador | June–July, 2022
Our research focused on role of headwater streams and wetland connectivity on gas fluxes between water and the atmosphere, specifically considering carbon. Some of our work was more observational where we sampled water and installed monitoring systems. Other days we conducted more specific experiments.

Leila Edmonds and Betsy Olson
Palm Beach Cty, FL | 2022–2023
This project builds on Dr. Olson’s decade-plus research collaboration with the Caregiving Youth Project (CYP), the only organization in the United States that supports people under the age of 18 who take on a range of roles to support a parent, guardian, relative, or sibling who is chronically ill, disabled or otherwise requiring care for medical reasons. Our research focuses on the everyday experiences of youth caregivers, how youth identities intersect with caregiving, and how caregiving shapes the spaces and places available to youth caregivers.

Sophia Graybill and Conghe Song
Pyuthan & Salyan Districts, Nepal | May–June, 2022
The purpose of the trip was to conduct preliminary fieldwork for Dr. Song’s research project on the integrated socio-ecological dynamics of Community Forestry in Nepal. We met with district and community representatives to introduce ourselves, establish rapport, and pre-test a household survey that will be administered during a subsequent trip in 2023.

Paul Tallie
Cedar Key, FL | Spring, 2023
We use a camera trap specially designed for small mammals in tidal environment to monitor an endangered voile with an incredibly small range. The broader project is investigating the effectiveness of mimicking small-scale disturbance to better conserve saltmarsh biodiversity that is vulnerable to global change.

Leiha Edmonds and Betsy Olson
Palm Beach Cty, FL | 2022–2023
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Benjamin Bryant
Pana Togo | June–July 2022
We conducted a month of field work in northern Togo collecting drone imagery of soil degradation and rehabilitation with Dr. Colin West (Department of Anthropology).

Banu Gökarıksel and Betül Aykaç
Istanbul, Turkey | Various times in 2022–23
This project analyzes the embodied geopolitics of refugee discourse, practice, and policy. One of the project sites is Turkey where there are more than 4 million asylum seekers mostly from Syria, Iraq, and Afghanistan. Our study includes interviews and discourse analysis (political leaders’ speeches, news articles, and opinion pieces published in mainstream media outlets and social media) to understand how refugees are treated as gendered and racialized Others.

Christian Lentz
Dien Bien Phu, Vietnam | February–April, 2023
I spent the spring semester on fellowship at National University of Singapore’s Asia Research Institute (ARI) where I worked on building the UNC-NUS partnership, strengthened UNC’s Southeast Asian Studies curriculum, presented research in progress, and traveled to neighboring countries for fieldwork. In Vietnam, I did archival research in Hanoi and Ho Chi Minh City on relations between Vietnam and Indonesia during the 1950s–60s and visited my fieldsite in Dien Bien Phu where I saw old friends, such as Mr. Mung (pictured).

Kate Brandt, Mike Ench, Varun Goel, and Cyrus Sinai
Lilongwe, Malawi | June–July, 2022
We launched a study on the impacts of solar technologies on household energy access. The study is part of the Energy Poverty PRE in Southern Africa project, lead by Dr. Pam Jagger. We designed and implemented our survey in collaboration with Dr. Charles Jumbe and Dr. Thabbie Chilongo from the Lilongwe University of Agriculture and Natural Resources. We will return to the field next summer for follow up data collection.
My training as a geographer helped me to understand these spaces, or at least to raise new questions about them, in their relation to social, political, economic, and cultural processes.

**How was the research conducted for the project?**
Much of the research was conducted in dusty archives, where traces of the U.S. colonial project have been preserved—mostly in North America at government archives and university special collections in places like Ann Arbor, Chicago, and Cambridge, Massachusetts. I also traveled to the Philippines—both to visit more archives and to see some of the settings firsthand, even though the early twentieth century "American colonial spaces" I was studying no longer exist except in traces from the archive and in the landscape. In addition to these site visits, I was also able to meet with faculty and students in the Geography Department at the University of the Philippines (in 2008 and 2015) and to experience some of everyday life there today, which added different perspectives to my project.

**How does your training as a geographer offer a novel perspective on this story?**
Different kinds of space—from the legal construction of sovereign territories to governmental maps and plans, and from aesthetic landscapes like the American summer capital in Baguio to the new roadways that were necessary to get there—are at the core of the stories I tell in this book. My training as a geographer helped me to understand these spaces, or at least to raise new questions about them, in their relation to social, political, economic, and cultural processes.

**What were you doing prior to working for the UNC Geography Department?**
I was going to Durham Tech to become a paralegal, and working for the School of Medicine as a temp. I had been trying for years to become a permanent staff member on campus—my parents both drilled the importance of a retirement plan and benefits into my head! And, I was fortunate enough to land that position here, and I have been here ever since!

**What is something particularly memorable from early in your time at UNC Geography?**
When I first arrived here, one of my duties was to make copies of syllabi, tests, and exams on a mimeograph machine! The purple text....the smell! Soon after I became the Department Manager in 1996, I asked Dr. Florin if we could please switch over to a copier for such tasks, and he agreed the mimeograph could go. I happily sent it off to surplus!
We would love to hear from you! Just scan or click to share your own news.

**GIS DAY Map Competition**

**THE GIS DAY MAP COMPETITION** is an annual event sponsored by the UNC Geography Department and the Davis Library Research Hub. The event was held on Wednesday, November 16, 2022. There were 42 entries in the competition! Winners were chosen by a panel of expert judges and popular vote at the in-person event (35 people voted at this year’s event).

![Displaying Urbanization and Sprawl in Atlanta Metro Area Census Tracts](image)

1ST PLACE
Sarah Followill

2ND PLACE
Grey Shipman

3RD PLACE
Amy Tran

**SARAH FOLLOWILL**
**UNDERGRADUATE STUDENT PROFILE**

Where did the idea for your GIS Day map come from?
I am from Atlanta, Georgia, so I wanted to use that city as my study area, and I knew from living there that Atlanta is extremely spread out and greatly affected by urban sprawl. From most residential areas, you have to get into a car to go just about anywhere. Therefore, I wanted to study urban sprawl in Atlanta, especially in the past 10 years as the city has grown so much in that span. Additionally, I wanted to code a website that had interactive elements to involve the user in studying my topic.

Do any courses you taken in UNC Geography stand out?
My first GIS-related class in the GEOG department was Dr. Delamater’s GEOG 215 class, and I really owe that class and Dr. D for sparking my love of mapping and learning to code. Dr. Javier Arce-Nazario’s GEOG 456 class was also quite impactful to me, as that is the class where I learned the skills to build the website that I submitted to the GIS Map Day competition. Dr. Arce-Nazario was so patient while helping me with my code and I truly appreciated that.

What was the best part about presenting your work at the NC GIS Conference?
I enjoyed presenting my own project, but I really enjoyed getting to listen to other student projects including UNC graduate student Grey Shipman’s project on Chapel Hill transit equity, which was the second-place winner for UNC Map Day.

Sarah will be graduating in May, 2023. She has a passion for sustainable design, both in the architecture and urban planning sectors. Sarah is also a Captain on UNC’s Division I Fencing Team and enjoys creating art, especially ceramics.

**SHARE YOUR NEWS!**
We would love to hear from you! Just scan or click to share your own news.

**FACULTY NEWS**

PAUL TAILLE received a grant from the UNC Center for Galapagos Studies to support collaborations in the Galapagos and presented at the Remote Sensing Interdisciplinary Graduate Education Seminar Series at Virginia Tech.

**DANIELLE PURIFOY and SARA SMITH**’s project, the Land Back/ Abolition Project, received funding from the Alliance group and the Institute of Arts and Humanities and was featured in a Daily Tar Heel article.

Continued on Page 18
How would you like to see your research develop in the future?

I envision our lab as one that develops in 2 major ways. Firstly, there are many gaps in our understanding of the factors which affect greenhouse gas flux from freshwater, and many components of gas flux and transformation that are still poorly understood. As we continue to push the threshold of that understanding, I envision communicating results, and proposing studies which further elaborate how our management decisions (e.g. dam water releases, channel creation, landcover change) affect freshwater greenhouse gas flux. Secondly, we are just beginning to appreciate the importance and breadth of anoxic (no oxygen) conditions in freshwaters — we will continue to understand how these anoxic conditions can affect how energy is cycled through freshwater food webs.

We send our warmest congratulations to all graduating seniors in our major and minor programs, as well as to all graduate students who have successfully passed their comprehensive exams and defended their proposals, theses, or dissertations!
Geography PhD student Kriddie Whitmore and undergraduate students Daniela Zarate and Amy Madrigal take CO₂ and CH₄ gas flux readings in a wetland area located in Cayambe Coca National Park, Ecuador during fieldwork conducted in summer 2022 (photo by Kayla Emerson).