

Annual Departmental Awards Presentation & Celebration Wednesday, June 1, 2022 Time 3:00 – 5:00 PM

Hybrid HW 8th Faculty Dining Room & Zoom *Our program will begin shortly.*

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCE

🔆 HUMAN AND PHYSICAL GEOGRAPHY 🔅 EARTH AND ENVIRONMENTAL SCIENCE 🖄 GIS 🛢 GEOINFORMATICS 💉 REMOTE SENSING

Program

- Welcoming Remarks and State of the Department Address
- Meet our Candidates for Graduation
- Students with External Awards
- Presentation of Awards
 - Gamma Theta Upsilon Induction Ceremony
 - New York Map Society Alice Hudson Map Award
 - Miriam and Saul Cohen Prizes for Geographic Excellence
 - Society of Woman Geographers Adelene Moffat Fellowship
 - Sally Clark Award
 - Anastasia Van Burkalow Award for Distinguished Service
- Graduating students, awardees and their loved ones are invited to join the screen and share their thanks and remarks









DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCE

HURTER The City University of New York

State of the Department Address

Department of Geography & Environmental Science

and the second

Faculty and Staff





Acknowledgments of the Spring and Summer 2022 Candidates for Graduation



Undergraduate Candidates for Graduation

BA in Geography

Amanda Catale* Shanique Chen* Vanessa De Ferrari Summer Renkewitz* Adiel Rodriguez Altynai Scott James* Selani Thomas*



BA in Environmental Studies

Carl A. Banco Tyreik Kelly Matthew Lau Ka Yi Lee Yasmine Lo* Claudia June Maletti* Cloè C. Mueller* Joanna M. Napoleone* Nicole Pena Kyra Procopio Georgiana M. Rojas Cassidy M. Sharp Michelle Zhou

Macaulay Honors College BA in Environmental Studies Hunter College Valedictorians

Jisun Reiner* Margalit Shetreat-Klein*

BA/MA in Environmental Studies Adolescent Earth Science Education

Jonathan Lopez*



Amanda Catale

Bachelor's Degree and Honors in Geography

Program: Geography major and minor in women and gender studies.

I chose this program because previously I was working in vegan culinary but hoped to extend my work to sustainability not just limited to how we eat. My interest is mostly in sustainability and access to sustainable resources throughout marginalized communities. Currently my research with Professor Frei involves green roofs: the hydrological and energy impacts. I hope to continue to do work on/with green roofs and extend my study to how they can be used to supply fresh and affordable produce to communities that are lacking access. After graduation, I plan to continue this study and seek other work involving green roofs, as well as maintain involvement in mutual aid organizations within my community. I would like to thank Professor Frei for allowing me to work so intimately on this project with him, giving me understanding and experience I would not have gotten otherwise.



Vanessa De Ferrari

Bachelor's Degree in Geography

- My best experience was learning about rocks in geology lab with Thomas Carbone. It was a three hour class and never boring.
- After graduation I plan to surf and work on the beach.
- I would specifically like to thank Thomas Walter, Enrique Lanz Oca, and Frank Buonato. Without these three I had the greatest experience I can imagine possible being a geography major. They are amazing teachers I aspire to be like and I thank them for the impact they had on my life.My thesis advisor was Enrique Lanz Oca. He pushed me to always do better and I am so thankful for our now friendship.



Altynai Scott James

Bachelor's Degree and Honors in Geography

- I came to Hunter knowing I liked Geography; I am graduating knowing that the Geography of the physical world is my passion.
- I want to thank my professors. Prof. Allan Frei, my first teacher in Geography (250 Earth System Science 1), taught us about the cycles of the physical world. My last teacher, Prof. Andrew Reinmann, took us out of the classroom (383 Field Ecology of NYC) and gave me hope about our urban ecology and still guides me in my thoughts about the biogeography of this world.
- Incredibly grateful to my GOD for taking me through this experience.
- I am hoping to continue my studies in Landscape Ecology.



Selani Franchesca Thomas

Bachelor's Degree and Honors in Geography with concentration in GIS

Would love to thank my Father for always inspiring me to work hard and accept every challenge with fervor. Additionally, I would like to thank my Mother for giving me the courage to better myself always and pursue curiosity. My family above all has held me through this and cannot thank them enough!



Tyreik Kelly

Bachelor's Degree in Environmental Studies

Internship: Teaching Assistantship at American Museum of Natural History. Co-lead class with the lead educator in topics ranging from environmental science, biology, astronomy and Paleontology.

I choose the DoGES pathway because after taking the Geo 101 and PGEOG 130, I fall in love with the topics and wanted to learn more, as Geology was much more than rocks. The Environmental sciences courses revolved around biology, physics, oceanography, chemistry, and so much more. Ultimately, Professors Rutberg and Salmun has had a profound impact on my journey here, and I am forever grateful. Right now I have begun summer coursework at Teachers College of Columbia University, where I will pursue a Master of Arts in Teaching degree and become dually certified in Secondary Earth Science and Secondary Special Education.



Cloè Mueller

Bachelor's Degree and Honors in Environmental Studies BA/MA Degrees in Economics

After graduating from Hunter College, I will conduct research in chemical oceanography in Paris, France with a Fulbright Scholarship. I am incredibly grateful for all the support from the Environmental Studies Department, particularly Haydee Salmun. She sparked my love for the ocean, so much so that I plan to pursue a PhD in Marine Science and Conservation so I can work on international marine policy.



Joanna Napoleone

Bachelor's Degree and Honors in Environmental Studies

- Program: Environmental Studies with a Earth Science concentration and a Biological Sciences minor. I chose this program because I have always been passionate about the environment and animal rights, and I fell in love with the idea of a career in this field after watching the Netflix documentary *Chasing Coral* in high school. After studying for 4 years in college, I have come to expand my interest to protecting and restoring all coastal ecosystems, not just coral reefs. In the future, I hope to focus my work on conservation of coral reefs, mangrove forests, and seagrass beds to help protect the coast against environmental hazards and climate change events. After college, I plan to take a year off to volunteer, gain experience, and hone in on my specific interests, and then I plan to attend graduate school to receive my master's degree.
- I would like to thank the Greenbelt Society for all the help and experiences that they have given me and will continue to give me. I am honored to be apart of this club and to have the help and guidance of Professors Ramiro Campos and Enrique Lanz Oca, among the other members of the club. The club has introduced me to many new interests, given me amazing opportunities to help the planet, and offered to further guide me as a Hunter alum in my journey to earn my master's degree.
- I also wanted to thank Professor Allan Frei as my mentor for my capstone in Honors in Environmental Studies. I will be working with him and the team on the green roofs on Randall's Island, studying management of stormwater and the effect of rain events, as well as observing and aiding in the installation of one or two green roofs around the 5 boroughs.



Kyra Procopio

Bachelor's Degree in Environmental Studies

Pathways Internship with NOAA's Physical Sciences Lab in Boulder, CO.

I took a two-year break after high school before applying to college because I wasn't sure what I wanted to do. In those two years, I became much more aware of the quickly declining state of the environment, and a political climate making it much worse. I wanted to get as involved as I could, and a career in environmental science seemed the right way to go, with the added bonus of being passionate about my job. After graduation, I hope to continue working with NOAA or another federal agency to do what I can to help.



Jisun Reiner

Hunter College Valedictorian, Macaulay Honors Bachelor's Degree and Honors in Environmental Studies and Sociology

I am thankful for all the experiences that have opened to me through the field of environmental science. I was a fellow at the Woods Hole Oceanographic Institution, where my peers and I deployed oceanographic instruments aboard a vessel, and I am currently interning at the Natural Areas Conservancy, which has led me to doing field work in the Bahamas. After graduation, I will deepen my knowledge about hydrology and the environment through my continuing internship with the Natural Areas Conservancy studying salt marshes in NYC. I would like to thank my family and friends for their support, as well as my amazing professors in the department. Thank you especially to Prof. Frei, who advised my capstone about green roofs at Hunter, and to Prof. Salmun for your support!

Video remarks: Jisun Reiner, Hunter College Valedictorian



Margalit Shetreat-Klein

Hunter College Valedictorian, Macaulay Honors Bachelor's Degree and Honors in Environmental Studies

This semester, I worked on my honors thesis titled "Assessing Methods for Maximizing Hardwood Seedling Regeneration Planted in Silvopasture and Sugarbush Systems" with my advisor, Dr. Andrew Reinmann, using data I collected during my summer researching at the Yale Forest. After graduation, I will be leading a team of fellows monitoring NYC street tree health, mortality, and demographics with the USDA Forest Service and The Nature Conservancy, and after that, I plan to continue working in and researching forest ecology and agroforestry.





Master of Arts in Geography







Christian F. Delgado

Master's Degree in Geography

I am the first Master's degree recipient in my family.

I started attending Hunter College in 2009, declaring Geography as my major during my first semester. Earning my BA in Geography and Environmental Studies: Earth Science on May 2014.

Completing both the MA Geography and GIS certificate program.

How grateful I am to have been part of Hunter College's Geography Department and very much appreciative of all the professors and friendships I have developed through the years. I want to specifically thank my graduate advisor professor Miyares and Professor Williamson who were an integral part of my success.

What I plan to do after graduation?

I plan to continue working as a GIS analyst and continue to build on my skill set. One of my goals I have going forward is potentially applying for a PhD program and seeking teaching opportunities.



Emily Lifs Master's Degree in Geography

I feel like I got so much out of the program that it is hard to choose, and I truly mean that. I didn't come from a geography background, so I learned how to think like a geographer. I got a lot of practical GIS skills, especially Python from the Environmental Data Science course taught by Dr. Ni-Meister. And I really value the wisdom and teaching of my professors. I learned so much from every single professor I had here at Hunter.

As for what I am doing next: I am moving to San Diego for a year, and during that time I plan to take on ad hoc projects while I work with the War Legacies Project and apply to graduate programs.

Thesis: "War and Nature: How Conflict in Cambodia Shaped Its Natural Landscape" Thesis Advisor: Dr. Miyares



Camila Oliveira

Master's Degree in Geography

I truly appreciate the department of Geography at Hunter College. I was extremely well treated during this entire journey.

The discussions we had in class, made me understand that a lot of what we hear on news or that affects our daily lives involves politics. Changes are happening faster than before, and new technology is more accessible. The young are more environmentally aware. This makes me believe that in the future, things will improve.

It is encouraging to know that geography is filled with possibilities, and I will be happy to work with many of them. Talking about it, I applied for the School of Education and plan to teach Earth Science to Middle Schoolers. Yet, I have my eyes on Environmental Justice. As I learned in the Energy class, policies play a huge role in the outcomes.

We must understand how and why environmental issues happen and getting involved to do what is right according to the law, brings prevention. Which I consider more important than mitigating hazards.

The best part of it? Knowing that all these issues have solutions. It fascinates me to see my classmates with diverse and fantastic projects that I could never imagine. Yes, together, we are better, and I am happy to consider myself part of the solution. It was an honor to be part of the geography department and I will miss everyone. I will still bother professors with emails from time to time lol

PS: Many jobs are done by geographers. Yet, they don't have the name geographer on the title. Maybe that's something we could explore to attract more students. It must be done in middle and high school because usually in college, the students already have an idea of what to choose.



Master of Science in GeoInformatics











Gowri Anand

Master's Degree in GeoInformatics

Choosing this program for my Master's degree was an amazing decision because it opened doors to so many possibilities, experiences, and people that I would have never seen otherwise. While I initially jointed this program to learn how GIS can serve my environmental biology & health interests, the program has demonstrated the various fields and applications that GIS serves to all on a daily basis. With all that I've learned at this program, I am looking forward to seeing how I can apply all this after graduation.



Sheena Philogene

Master's Degree in GeoInformatics

My current research interest is in public health, and I hope to use what I have learned through this program to positively impact local and global communities. I'd like to build upon my thesis, titled "Using GeoSpatial Analysis to Evaluate Relationships Between Cancer Incidence and Social Factors in Brooklyn, NY," to bring light to and find solutions for an ever developing problem in NYC.



Matthew O. Ward

Master's Degree in GeoInformatics

Matthew Ward entered the program in the fall of 2020 after deciding to finally pursue a long-held interest in studying GIS. He would like to thank all the professors and amazing fellow students! In his thesis, he looked at visualizing location-based information in AR and he hopes to find work soon as a GIS software developer. Special thank you to Dr. Ahearn for advising.



Master of Science in GeoInformatics

Sabine A. Cauchi

Christopher A. Spagnoli



E 69th Street





Certificate in Geographic Information Systems

Radley Ciego

Christopher A. Spagnoli

Students with External Awards





Fulbright Research Scholarship

Cloè Mueller

Barry Goldwater Scholarship

Malik Atadzhanov

- I'm not exactly sure if I have a department mentor but I do have a great relationship with Professor Campos.
- I gained a lot of valuable insight into urban sustainability, I was able to further advance my knowledge in geochemistry of volcanoes which is extremely helpful since the research I conduct at Columbia focuses on that.
- As for the Goldwater Scholarship here is an excerpt taken from their website "The federally funded scholarship is America's premier award for undergraduates majoring in math, science and engineering. Its goal is to provide a continuing source of highly qualified scientists, mathematicians, and engineers by awarding scholarships to college students who intend to pursue research careers in these fields."



GAMMA THETA UPSILON

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THE INTERNATIONAL GEOGRAPHICAL HONOR SOCIETY Recognizing Geography's Next Generation of Leaders

2021-2022 Induction Ceremony

Theta Pi Chapter Hunter College, CUNY

Goals of the Society

The goals of Gamma Theta Upsilon are directed towards furthering the discipline of Geography, geographic excellence, and service. They are as follows:

- To further professional interest in Geography by affording a common organization for those interested in the field.
- To strengthen student and professional training through academic experiences in addition to those of the classroom and laboratory.
- To advance the status of Geography as a cultural and practical discipline for study and investigation.
- To encourage student research of high quality, and to promote an outlet for publication.
- To create and administer funds for furthering graduate study and/or research in the field of Geography.
- To encourage members to apply geographic knowledge and skills in service to humankind.





Gamma Theta Apsilon Theta Pi Chapter

New Inductees

Raven-Sky Bryant Radley Kenneth Ciego Devon Espinoza Candace Akilah Gregory Sara Kashani Lauren Marie Mangla

PLEDGE BY INITIATES

"I do hereby pledge myself to service in Geography throughout my lifetime in whatever capacity I may find, and to use Geography to the service of humanity."




Alice Hudson Map Award



The New York Map Society

Nominations for Best Map

Printed Map Category



Emily Lifs

Revisiting the Vietnam War: A Case Study of Herbicidal Damage to Cambodia

Francis Cabibbo

- Shipwrecks of the Puget Sound
- Historic Hudson Valley Towns Newburgh
- Historic Hudson Valley Towns Poughkeepsie
- Historic Hudson Valley Towns Wappingers



Emily Lifs

Recipient of Hudson Award for Best Printed Map

REVISITING THE VIETNAM WAR: A CASE STUDY OF HERBICIDAL DAMAGE TO CAMBODIA **Emily Lifs**



Map Area



Original Map



Herbicides Used in Vietnam



Hap of Dameged Area Westing AH (1972) Herbickal Damage to Cambodia. In: Harvest of Death: Chemical Warfare in Vietnam and Cambodia. New Yor The Free Press, pp. 177–205; Figure 4-1, p. 183. ferbicides used in Vietnam W Vational Archives — Herbicide Coffice of the Secretary of Defense's Bevised Version, available at: https:// a shapefile ersity of Texas at Austin GeoData — University of Texas Librarie

n-cambodia-1973-2014

Fast Facts

Area damaged: over 173,000 acres Number of people affected: ~30,000

Value of crops affected (1969): \$12,200,000 Value of crops affected (2022): \$95,574,000 Compensation to Cambodia: \$0

Herbicides sprayed in 1968: 5,400 gallons Agent White, 4,000 gallons Agent Orange Agent Orange sprayed April-May 1969: 116,600 gallons

Westing's estimate: 77,000 pounds (8,950 gallons) of Agent Orange

Maximum percentage of drift from April-May 1969: 7.68% Maximum distance of drift from April-May 1969: over 30 km

Context

Context
 This map is important because, to the best of my research, Cambodia has new been compensated for the damage cosmerd.
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Nominations for Best Map

Interactive Map Category



Gowri Anand, 311 flood calls in NYC and corresponding flooding prevention infrastructure

Raven-Sky Bryant, NYC Colleges and NYCHA

Christian Delgado, New York City Graffiti & Crime Mapping

Andie Migden, Electric Vehicle Charging Stations and EV Registration in the U.S.

Matthew Ward, NYC PLUTO AR



Gowri Anand

Recipient of Hudson Award for Best Interactive Map

NYC Flood calls per NTA and corresponding flood prevention infrastructure

2010-2020	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Edicon Trenton New Jersey Total 311 Calls 0-745 745–1490 1490-2235 2235–2980 2980–3725 3725–4470 4470–5215 5215–5960 5960+ No Data	Yonkers Hickaville WYork Levitown West Ing Branch	Cedar Grove Montclair Bloomfield Beth East Orange Irvington Newark	Jersey City Status to Bayonne Welcom On the top left are map com the home view. Below that and off with the M key. On the top right is a layer of and off with the L key. Belo On the bottom left is a lege lood calls, street trees, gre Click on the polygons and p	Fort Lee - Ridgetield Cliffside P. Union City Union City The This is a map of the This is a map of the This is a map of the this is a search function control menu that lets you ow that is a search function and that indicates the num-	ame that allows you to se u toggle between base ma on that allows you to look to mber of calls made by resi atch basins aggregated to	I is shown between the 4 be where you are current aps and visualize NYC's for a specfic NTA by nar idents in that NTA per tim the NTA, CDTA, and bo Otherwise, you can togg	Gien Mines Garde He Ley Stream East Rockaway made from 2010 and -), display the mag by at at a smaller zoom green infrastructure effor ne. ne period. To the right of rough level.	o at full screen, or return to scale. You can toggle it on orts. You can toggle it on if this map are tables of total with the X key.	Fort Greene Clinton Hill Brooklyn Heights Brooklyn Navy Yard Bedford-Stuyvesant Bedford-Stuyvesant Bushwick (East) Bushwick (West) The Evergreens Cen East New York-New East New York-New East New York-New East New York-New East New York-New Carroll Gardens-Col Park Slope Sunset Park (West) Windsor Terrace-So Sunset Park (West) Windsor Terrace-So Sunset Park (Centra Green-Wood Cemel Crown Heights (Nor Prospect Heights Lincoln Terrace Park Prospect Lefferts Ga Crown Heights (Sou Bay Ridge Dyker Heights Dyker Beach Park Fort Hamilton	n-DUMBO-Boerum Hill (East) (West) (West) Lots Line th) tt City ess Hills Cemeteries (South) oble Hill-Gowanus-Red Hoo uth Slope I) tery th)	
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Miriam and Saul Cohen Prizes for Geographic Excellence

Nominations for Undergraduate Award



Shanique Chen

"Seagrass Habitat & Species Detection in Long Island Sound" Faculty Advisor: Professor Wenge Ni-Meister

Cloè Mueller

"A Piece of the Caribbean Sea: A Look into the Local Ocean Dynamics at the Virgin Islands Shelf Break and Trough" **Faculty Advisor:** Professor Haydee Salmun

Cloè Mueller

Recipient of Cohen Prize for Undergraduate Award

Nominations for Graduate Award



Gowri Anand

"Land Use Land Cover Change and Climate Variation in NYC from 2001 to 2019" Faculty Advisor: Professor Wenge Ni-Meister

Bibhash Nath

"Current status of groundwater arsenic contamination in Murshidabad districts of West Bengal" Faculty Advisor: Professor Wenge Ni-Meister

Bibhash Nath

Recipient of Cohen Prize for Graduate Award



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Founded 1925

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Sheena Philogene Emily Lifs

Recipients of the 2022 Society of Woman Geographers Adelene Moffat Fellowship

Adelene Moffat Fellowship

Sheena Philogene is an academic librarian and a recent

graduate of the Department of Geography and Environmental Science at Hunter College. She has been a librarian since 2018 and the Science Librarian at Brooklyn College and liaison to the Brooklyn College Cancer Center (BCCC-CURE) since 2020. Sheena has earned a Bachelor of Arts in English from Hunter College, a Master of Library Science from Queens College, and most recently a Master of Science in GeoInformatics from Hunter College.

Sheena's research and interests are ever evolving, but currently they include community health, spatial epidemiology, environmental hazards, chronic disease analysis, and remote sensing. Her current research is focused on community health and spatial epidemiological analysis. Her thesis, titled "Using GeoSpatial Analysis to Evaluate Relationships Between Cancer Incidence and Social Factors in Brooklyn, NY," explored the spatial distribution of cancer incidence in Brooklyn, using large amounts of publicly available data and GIS techniques. Sheena hopes to build on this work, investigating trends in the incidence of cancer and other chronic diseases within New York State and improve community health education, local policy, and health outreach efforts. In addition to this work, she has recently developed an interactive Brooklynbased health dashboard that provides local level information about a variety of health conditions impacting the community.



Adelene Moffat Fellowship

Emily Lifs is a master's student in the Department of Geography and Environmental Science at Hunter College, part of the City University of New York (CUNY). She is a geographer interested in conservation, biogeography, natural landscapes, human-nature interactions, and historical maps. Her thesis, "Conflict and Nature: How War in Cambodia Shaped Its Natural Landscape," looks at the different pathways through which the Cambodian natural landscape and ecology were shaped by war, from the military aspects of war to the societal upheaval it causes. She intends to use the SWG Adelene Moffat Award to fund further research into the long-term effects of the US use of herbicides like Agent Orange in Cambodia (and the southeast Asian environment more generally).



Sally Clark Award







Sally Clark Award

Rebecca John is currently pursuing her masters in Geography from Hunter College, though grassroots social movements were her first form of education. She is interested in the ways we change ourselves, as individuals and as a collective, through the process of changing the world, and aspires to be a geographer rooted in this dialectic. Her research is on efforts to reimagine fiber production and shape an anti-capitalist material culture rooted in the land. As a weaver and embroiderer, she is inspired by the role textile workers and textiles have played in movements and in cultures across the world, as well as the way fiber arts connect craft to the land. She looks forward to uplifting them as an often overlooked yet important part of our everyday lives, and perhaps ways to map anti-capitalist geographies.



Anastasia Van Burkalow Award for Distinguished Service



Martha Taylee

Recipient of the 2022 Anastasia Van Burkalow Award for Distinguished Service



Remarks from Attendees