

Environmental Science Senior Thesis Poster Session

Thursday, April 23

4:15-4:45 pm Summary Presentations

4:45-6:00 pm Poster Session

Event Oval, LL100, Diana Center,
Barnard College

Fresh Lava Flow, Hawaii

Environmental Science, Barnard College
Earth & Environmental Sciences, Columbia University
Ecology, Evolution & Environmental Biology, Columbia University
Sustainable Development, Columbia University

Please mark your calendars!

RSVP requested. A detailed schedule will be posted a few days before the event

BARNARD

 **COLUMBIA CLIMATE SCHOOL**
Climate, Earth, and Society

 **COLUMBIA COLLEGE**
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

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School of General Studies

Banda, Brice	Examining the Timing and Source of Fluorite Deposits Along the Rio Grande Rift, New Mexico
Beisher, Caroline	Mapping Wetland Loss and Elevation Change in Jamaica Bay: a Legacy Approach to Flood Hazard
Berthier, Maia	Sweltering Cities: Comparing Equity and Vulnerability in Heat Adaptation Planning for Paris and New York City
Bonham, Chris	Red Myotomal Muscle as a Metric for Migration Distance in Chinook Salmon
Brown, Gina	K'/Ar Provenance Analysis of Bermuda Rise Sediment During the Last Deglaciation
Burckin, Daisy	Who's Your Big Momma? An Analysis of Growth Rate and Trace Metals in Porites Lutea
De Santiago Acero, Franco	Surface and Subsurface Marine Heatwave Impacts on Tropical Cyclone Intensification
DeSousa, Giselle	Optimizing Airborne Gravimetry Data to Investigate the Bathymetry of the Sub-Ice Shelf Continuation of Hayes Bank in the Eastern Ross Sea, Antarctica
Diaz Cazarrubias, Mayra	Using Trematode Infections in the Eastern Mudsail as a Proxy for Fish Diversity in the Hudson River
Ding, Amelia	Frontline Community Engagement in Flood Adaptation Planning
Ding, Grace	Use of the International Court of Justice's Advisory Opinion in Domestic Litigation
Dominici, Bria	What Could we Build? Rethinking Human-Nature Relations in the Weelaunee Forest
Figuerola-Beltran, Katie	Assessing the Impact of Alkalinity Enhancement on Corals: A New Approach for Promoting Growth in Ex-situ Nurseries
Gilbert-Trachtman, Eliana	The Effect of Raw Earth Materials on Air Temperature
Girzadas, Eve	Effective Action Against Industrial Lead Pollution: Comparative Evidence from Exide Technologies in Lille, France and Los Angeles, USA
Gray, Tessa	East Harlem's Perspectives on the Army Corps of Engineers' Early Actionable Flood Resilience Plan
Huggins, Elizabeth	Harmonizing Flux Tower Data for Simulating Rangeland Carbon Dynamics
Kapczynski, Meadow	Understanding Rice Paddy Dynamics: Grain Arsenic in Laos
Karavanas, Chariclia	Diving Deeper: Vessel Interaction Exposure Risk for Tamanend's Bottlenose Dolphins Mother-Young Pairs
Kornfeld, Lela	Fault Geometry and Kinematic Controls on Fault Rock Evolution in Extensional Basins
Krupa, Lochlan Sife	Genomic Evaluation of Kinship and Inbreeding Informs Conservation Efforts for the Endangered Whitaker's Skink
Lansing, Ellen	Tree Stem Respiratory Temperature Response Variability in Species of Varying Latitudinal Distributions
Lopez-Guerra, Alicia	Environmental Injustice Behind Bars: Identifying and Analyzing Drivers of Heat Vulnerability in the United States Prison System
Marostica, Megan	First Insights Into Volatiles and Magma Storage Beneath Poás Volcano: A Shallow Phreatomagmatic System
McNerney, Kathryn	Spatial Variability in the Preservation and Evidence for an Extraterrestrial Impact in the Hudson River
Mendez, Emely	A Spatial and Data-Driven Evaluation of Soil Health and Ecosystem Function in Regenerative Grazing Systems
Miller, Vivian	Bending at Antarctic Ice Shelf Fronts: Investigating Spatial Variability and Temporal Evolution

Mitchell, Alexa	Cracks Beneath the Concrete: The NYC 125th Street Fault and the Structure of Intraplate Urban Earthquake Sources
Modi, Mira	Characterizing Sources of Methane in Upper Manhattan Using Vehicle-Based Street Level Sampling
Molz, Elliot	Using Melt Inclusions in the Archaeos Tuff to Determine Magma Storage and Processes Leading to the Earliest Caldera-Forming Eruption at Santorini
Onderdonk, Lucy	Late-glacial to Holocene Paleovegetation and Paleoclimate at the Great Marsh, PA
Pan, Peter	Quantifying the Timescales of River Channel Adjustment in Response to Climate and Environmental Change
Perry, Noelle	Supporting Farmers Through Public Markets: A Case Study of Seattle's Pike Place Market
Puga, Adrian	Paleoecological Constraints on the Chronology of Southeastern Laurentide Ice Sheet Deglaciation from Budd Lake, NJ
Quinones, Sunshine	Urban Green Spaces as Sites of Resiliency and Community: How Immigrants Use and Value Parks
Ram, Dhruva	Impacts of Vegetation and Environmental Factors on Soil Respiration Across Singapore's Green Space
Ramirez-Buckles, Marisol	Using Foraminifera, LOI, and XRF to Examine Coastal Sea Level Rise in Southern Long Island Salt Marshes
Rapsas, Danielle	From Cation to Rice Cultivation: An Analysis of Soil Nutrients in Cambodia
Roberts, Sophia	Comparative Microhabitat Selection of Threatened and Non-Threatened Chameleon Species
Saru Magar, Ashik	Seasonal and Inter-Annual Variation of Particulate Matter in Kathmandu Valley (2016–2024)
Simmons, Kaiya	Assessing What Factors Influence Stewardship Practice: A Case Study of Sherman Creek Park
Storstein, Siri	Sea Surface Temperatures, Precipitation, and Dengue Outbreaks in Coastal Peru 2000-2023
Sullivan, Jillian	Multispecies Occupancy Analysis of Mesopredators in the Eastern Romanian Carpathians
Tatham, Rebeka	Divided Societies, Shared Energy? Trust in Governance of Solar and Fossil-Based Energy Scenarios in Cyprus
Teasdale, Ava	Transmission Accomplished: A Comparative Analysis of Transmission Development in Texas and California
Thompson, Violet	Detecting and Quantifying Terrestrial Plastic Pollution Using Drone Imagery and Machine Learning
Tomaszewski, Esme	Trout Stream Habitat Conditions in the Milwaukee River Watershed
Vera, Grace	The Climate Change Connection in Disaster Reporting
Woods, Victoria	Evaluating Predictive Models of Soil Water Behavior in Forest Soils
Xiao, Nicole	Examining Associations Between Prenatal Ambient Temperature and Adverse Birth Outcomes, including Pre-term and Small for Gestational Age (SGA) Births
Yao, Madeleine	Radar Attenuation Through the Ross Ice Shelf Reveals Melt Shutdown and Accretion of Marine Ice Within Basal Channels
Yiannias, Mia	Predicting Sea Level Change Driven By Greenland Ice Sheet Melt
Young, Ashley	Rethinking Slow Fashion Indigenous Textile Knowledge and Cultural Resistance in Cabanaconde, Peru