



Autumn 2024 Program on the Environment Capstone Symposium

Event Program

Tuesday, November 26th, 4:30 – 7:30 PM: Online Poster Session

**Wednesday, December 4th, 4:30 – 8:00 PM: In-person Oral
Presentations & Celebration**

The Capstone experience is a three-course series (ENVIR 490, 491, 492) centered on a quarter- long project-based internship with a community site partner. Capstone sites range from community-based nonprofits and government agencies to faculty research projects and private sector initiatives. With the mentorship of a faculty advisor and the support of the site supervisor, students gain valuable hands-on experience, explore career possibilities, and build a wide spectrum of professional communication skills.



DAY 1: ONLINE POSTER SYMPOSIUM

DAY 1: Tuesday, November 26th

4:30 – 4:40 PM Welcome & Session Overview

4:40 – 4:50 PM Session A Speaker Intros

4:50 – 5:50 PM Poster Session A – Natural Sciences, Business & Sustainability, Policy & Regulation

The Guidance of Salmonberries: How we can Reclaim Mother Nature as her Children and not her Antithesis. Session A, Room 1

Ada Cashmere, Program on the Environment, University of Washington

Site Supervisor: Kaylee Pingeon, Free The Green

Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

Bird Talk: Patch Cuts as a Means of Conservations. Session A, Room 2

Maya Clauson-Nehus, Program of the Environment

Site Supervisor: Micaela Petrini, Great Peninsula Conservancy

Faculty Advisor: Tim Billo, Program of the Environment, University of Washington

Waves of Insight: A Methodology for Tracking Recreational Boating Patterns and Significance in the San Juan Archipelago. Session A, Room 3

Sara Da Silva, Program on the Environment, University of Washington

Site Supervisor: Sandy Wyllie-Echeverria and Jason Hodin, Friday Harbor Laboratories, University of Washington

Faculty Advisor: Corey Garzas, School of Aquatic and Fisheries Science, University of Washington

Capitalism and Sustainability: Understanding the Role and Implications of Corporate Greenwashing and Climate Misinformation. Session A, Room 4

Maeve Doolin, Program on the Environment, Political Science, University of Washington

Site Supervisor: Lauren Hale, Raise Green Inc.

Faculty Advisor: Karen Litfin, Political Science, University of Washington

How to Achieve Transit-Oriented Development in an Equitable and Just Way. Session A, Room 5

Sydney Elfstrom, Program on the Environment, Public Health-Global Health, University of Washington

Site Supervisor: Richard Gelb, Environmental Health, Public Health Seattle and King County

Faculty Advisor: Alexandra Montaño, Health Systems and Population Health, University of Washington

Shifting Thermal Windows: The Impact of Climate Change on Bull Kelp in the Salish Sea. Session A, Room 6

Kayla Engelhardt, Program on the Environment, University of Washington

Site Supervisor: Christopher Krembs, Washington State Department of Ecology

Faculty Advisor: Marielle Kanjia and Stefano Mazzilli, Puget Sound Institute

Know Your Audience: Creating Better Transit Systems through Co-Design with Community Stakeholders. Session A, Room 7

Grace Georgitsis, Program on the Environment, University of Washington

Site Supervisor: Arthur Bachus, The Seattle Subway Foundation

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

The Dangers of Weak Policy: Voluntary Corporate Participation in Standardized Date Labeling as an Enabler of Food Waste. Session A, Room 8

Olivia Hallas, Program on the Environment, University of Washington

Site Supervisor: Heather Trim, Zero Waste Washington

Faculty Advisor: Kayla Morton, Political Science, University of Washington

Barriers Hindering the Minority and Women-Owned Businesses to Reuse and Recycle Construction and Demolition Debris. Session A, Room 9

Nha Khuc, Nha Khuc*, Program on the Environment, Community, Environment, and Planning, University of Washington

Site Supervisor: Nori Catabay, King County Solid Waste Division

Faculty Advisor: Lubna Alzaroo, Program on the Environment, University of Washington

Nature's Wealth: Quantifying Benefits of Nature Exposure and Promoting Equitable Access through Policy. Session A, Room 10

Chikita Nigam, Program on the Environment, Political Science, University of Washington

Site Supervisor: Alicia Keefe, Centre for Nature and Health, EarthLab

Faculty Advisor: Michelle Johnson-Jennings, School of Public Health, School of Social Work, University of Washington

Designing For Sustainability: The Role Of A Reuse Commons Mall In Reducing Landfill Impact Through Community Engagement & Education. Session A, Room 11

Dhanush Pamarthi, Program on the Environment, University of Washington

Site Supervisor: Josh Epstein, Seattle REconomy

Faculty Advisor: Keith Harris, Department of Urban Design & Planning, University of Washington

What does it Take to Improve Recycling Contamination in the Medical Field?. Session A, Room 12

Caroline Pavloff, Program on the Environment, University of Washington

Site Supervisor: Gabriella Henkels, UW Medicine Harborview Medical Center

Faculty Advisor: Gary Handwerk, Director, Program on the Environment, University of Washington

Oysters in Acidic Waters: Pioneering Research in Marine Carbon Dioxide Removal and Pacific Oysters (*Crassostrea gigas*). Session A, Room 13

Talia Russom, Program on the Environment, University of Washington

Site Supervisor: Paul McElhany, National Oceanic and Atmospheric Administration (NOAA)

Faculty Advisor: Frankie Pavia, School of Oceanography, University of Washington

Achieving a Sustainable Future Through Design & Planning. Session A, Room 14

Jack Ryan, Program on the Environment, University of Washington

Site Supervisor: Shahrzad Tehrani, Sustainability, University of Washington-Bothell, Stephan Classen, Sustainability, Cascadia College

Faculty Advisor: Ken Yocom, Landscape Architecture, College of the Built Environments, University of Washington

Fishing Gear Modifications to Reduce the Bycatch of Green Sturgeon (*Acipenser medirostris*). Session A, Room 15

Daniele Scroggins, Program on the Environment, University of Washington

Site Supervisor: Susan Wang, U.S. National Oceanic and Atmospheric Administration Fisheries, West Coast Region

Faculty Advisor: Andre Punt, School of Aquatic and Fishery Sciences, University of Washington

Toxic Tech: Washington's Path to a Sustainable Electronics Recycling System. Session A, Room 16

Elena Vega de Soto, Program on the Environment, Geography, University of Washington

Site Supervisor: Hannah Scholes and Adrian Tan, King County Solid Waste Division

Faculty Advisor: Megan Ybarra, Department of Communication, University of California San Diego

Unhoused People as Park Users: Their Perspectives and Needs. Session A, Room 17

Michael Lu, Program on the Environment, University of Washington

Site Supervisor: David Lee, King County Parks

Faculty Advisor: Amy Hagopian, School of Public Health, University of Washington

Localizing the Sustainable Development Goals: Opportunities and Challenges in the Arctic Region. Session A, Room 18

Amber Wang, Program on the Environment, Jackson School of International Studies, University of Washington

Site Supervisor: Shahrzad Tehrani and Stephan Classen, UW Bothell/Cascadia College

Faculty Advisor: Jason Young, UW Jackson School of International Studies, University of Washington

Are our Green Spaces Adequate? The Impact of Nature Immersion on Emotional Well-Being. Session A, Room 19

Jaelyn Yanni, Program on the Environment, University of Washington

Site Supervisor: Lisa Hiruki-Raring, NOAA Fisheries, Alaska Fisheries Science Center

Faculty Advisor: Josh Lawler, School of Environmental and Forest Sciences, University of Washington, Tim Billo, Program on the Environment, University of Washington

5:50 – 6:00 PM Break

6:00 – 6:05 PM Session B Overview

6:05 – 6:15 PM Session B Speaker Intros

6:15 – 7:15 PM Poster Session B – Agriculture & Food Systems, Education, Outreach & Engagement

Reinventing Recycling: How Drop-off Sites Can Engage Consumers and Keep Recyclables Out of the Landfill. Session B, Room 1

Alec Baron, Program on the Environment, Law, Societies & Justice, University of Washington

Site Supervisor: Hannah Scholes and Adrian Tan, King County Solid Waste Division

Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

Let's Map It Out: The Potential of Mapping in Raising Sustainability Awareness of UW Students.
Session B, Room 2

Lea Bodmer, Program on the Environment, University of Washington

Site Supervisor: Daimon Eklund, UW Sustainability

Faculty Advisor: Lubna Alzaroo, Program on the Environment, University of Washington

Let's Glean: What is Gleaning and what Motivates People to do it?. Session B, Room 3

Tess Brobeck, Program on the Environment, School of Public Health, University of Washington

Site Supervisor: Emily Penna, FareStart

Faculty Advisor: Tyler Watson, Health Systems and Population Health, University of Washington

Secondhand, First-Class: Identifying Target Communities for the ReUse Commons and Effective Marketing Strategies for Engagement. Session B, Room 4

Brianna Cateriano, Program on the Environment, English Literature, University of Washington

Site Supervisor: Josh Epstein, Seattle REconomy

Faculty Advisor: Lubna Alzaroo, Program of the Environment, University of Washington

Thinking About Nature: How Forest Classrooms Foster Systems Thinking Skills in Preschoolers.
Session B, Room 5

Hana Chollar, Program on the Environment, Food Systems, Nutrition, and Health, University of Washington

Site Supervisor: Bri Castle, Fiddleheads Forest School, University of Washington Botanic Gardens

Faculty Advisor: Jamie Cho, College of Education, University of Washington

Assessing Involvements of Farmer's Markets in Communities. Session B, Room 6

Genevieve Fend, Program on the Environment, Food Systems/Nutrition/Health, University of Washington

Site Supervisor: Leah Nichelson, Camas Farmer's Market

Faculty Advisor: Yona Sipos, Food Systems/Nutrition/Health, Environmental and Occupational Health Sciences, University of Washington

Emotion in Science: The Role of Emotion in Integrating Traditional Ecological Knowledge and Western Science Methods in Environmental Science. Session B, Room 7

Zachary Flagler, Program on the Environment, University of Washington

Site Supervisor: Peter Donaldson, Sustainability Ambassadors

Faculty Advisor: Lubna Alzaroo, Program on the Environment and Comparative History of Ideas, University of Washington

Comparing Apples to Oranges... Fruit Preference & It's Implications. Session B, Room 8

Ella Gostisha, Program on the Environment, University of Washington

Site Supervisor: Riley Wilmart, City Fruit

Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

Nature's Crucial Role in Child Development Through the Lens of a Pandemic. Session B, Room 9

Liam Griffith, Program on the Environment, University of Washington

Site Supervisor: Tracy Harrison, True Nature Kids

Faculty Advisor: Gary Handwerk, Program on the Environment, University of Washington

Awareness to Action: Fostering Empathy Through Immersive Learning in Climate Justice Education. Session B, Room 10

Caroline Hale, Program on the Environment, Department of Sociology, University of Washington

Site Supervisor: Rishi Sugla and Zackery Thill, Climate Impacts Group, University of Washington

Faculty Advisor: Heather Price, Climate Justice Across the Curriculum, North Seattle College

Cultivating Well-Being: The Transformative Impact of Community-Based Environmental Learning. Session B, Room 11

Monica Hniang Dawt Chin, Program on the Environment, University of Washington

Site Supervisor: Laura Swartley, Human-Centered Design & Engineering Department PhD Student

Faculty Advisor: Yen-Chu Weng, Professor of Environmental Studies, University of Washington

We Can Manage: Examining Offal Waste Management Pathways For Washington State. Session B, Room 12

Andres Kappes, Program on the Environment, University of Washington

Site Supervisor: Heather Trim, Zero Waste Washington

Faculty Advisor: Lawrence Watters, Program on the Environment, University of Washington

Why Save Something You Don't Care About? - The Importance Of Outdoor Environmental Education Programs For Kids. Session B, Room 13

Haley Nelson, Program on the Environment, University of Washington

Site Supervisor: Kaelie Spencer, Sound Salmon Solutions, Hatchery and Education Program Manager

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

Is the Perspective Changing; Assessing the Relationship between Young Christians and the Environment. Session B, Room 14

Christina Rhoades, Program on the Environment, University of Washington

Site Supervisor: Mark Kaptein, Malibu Club a Young Life Camp

Faculty Advisor: Sarah Hemmett, Academic Adviser, University of Washington

Citizen Science: Transforming Community Members into Environmental Educators. Session B, Room 15

Annie Schlanger, Program on the Environment, Department of Political Science, University of Washington

Site Supervisor: Ally Galiotto, Pacific Northwest Crab Research Group (PCRG)

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

Bridging the Gap to Nature: Finding Solutions to Green Space Access Inequality. Session B, Room 16

Chloe Stafford, Program on the Environment, University of Washington

Site Supervisor: Jane Seibel, Director of Operations and Community Partnerships, The Nature Project

Faculty Advisor: Fred Pursell, Foster School of Business, University of Washington

Social Sustainability - The Unmapped Pillar at the University of Washington. Session B, Room 17

Kellie Telis, Program on the Environment, University of Washington

Site Supervisor: Daimon Eklund, UW Sustainability

Faculty Advisor: Dr. Kristi Straus, Program on the Environment, University of Washington

Breaking Barriers and Building Bridges for Youth to Enter Natural Resource Careers. Session B, Room 18

Amy Whitham, Program on the Environment, University of Washington

Site Supervisor: Clare Sobetski, Washington State Department of Natural Resources

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

7:15 – 7:30 PM Closing Remarks

DAY 2: ORAL PRESENTATION SYMPOSIUM & CELEBRATION

DAY 2: Wednesday, December 4th, UW School of Aquatic & Fishery Sciences

4:30 – 4:40 PM Welcome & Housekeeping

4:40 – 5:10 PM Poster Highlights & Refreshments

5:10 – 5:20 PM Break

5:20 – 5:25 PM Session Introduction

Top Barriers to Multifamily Composting: Matters of Accessibility & Justice. Day 2

Evelyn Osburn, Program on the Environment & Department of Political Science

Site Supervisor: Heather Trim, Zero Waste Washington

Faculty Advisor: Meagan Carmack, Sub-National Environmental Politics, Department of Political Science, University of Washington

Urban Agriculture: A Method for Reducing Food Insecurity in Seattle's Food Deserts. Day 2

Zoe Warren, Program on the Environment, University of Washington

Site Supervisor: Riley Wilmart, City Fruit

Faculty Advisor: Jessie Seiler, Department of Epidemiology, University of Washington

Keeping our Communities Fed: A Local Approach to Food System Planning. Day 2

Katie Olsen, Program on the Environment, University of Washington

Site Supervisor: Shannon Bly, Whidbey Island Grown Cooperative

Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

Light Rail Heavy Impacts: How a Toxic Relationship Can Halt the Expansion of Seattle's Light Rail System. Day 2

Miles Crook, Program on the Environment, University of Washington

Site Supervisor: Jamie Gruenberger, Seattle Subway Foundation

Faculty Advisor: Barry Erickson, Foster School of Business, University of Washington

The Power of a Circular Economy to Meet Sustainable Development Goals. Day 2

William Hooper, Program on the Environment, University of Washington

Site Supervisor: Josh Epstein, Seattle REconomy

Faculty Advisor: Ben Packard, EarthLab

Integrating Environmental Justice into NGOs: The Challenges and Opportunities. Day 2

Natasha Shafer, Program on the Environment, University of Washington

Site Supervisor: Emilene Castillo, Partner In Employment

Faculty Advisor: Zackery Thill, Climate Impacts Group, University of Washington

How the Collective Impact Framework can Inspire Meaningful Partnership and Rapidly Advance a Sustainable Future. Day 2

Mia Nelson, Program of the Environment, University of Washington

Site Supervisor: Peter Donaldson, Sustainability Ambassadors

Faculty Advisor: Keith Harris, Department of Urban Design and Planning, University of Washington

6:25 – 6:35 PM Intermission

From Coastlines to Classrooms: Marine Mammals as a Wake-up Call for Transformative Environmental Education. Day 2

Ainsleigh McKinlay, Program on the Environment, University of Washington

Site Supervisor: Aerial Wauhob, Highline College MaST Center Aquarium

Faculty Advisor: Aaron J. Wirsing, Environmental and Forest Sciences

What's In a Name? Themes for Addressing Racist Language in Natural History Collections. Day 2

Nile Peoples, Program on the Environment, University of Washington

Site Supervisor: David Giblin, University of Washington Herbarium (Burke Museum of Natural History)

Faculty Advisor: Erin Gilbert, Department of English, University of Washington

Seas of Change: How Baseline Data of Indicator Species Will Impact Future Marine Research. Day 2

Anika Remmers Jansen, Program on the Environment, University of Washington

Site Supervisor: Paul McElhany, National Oceanic and Atmospheric Administration (NOAA)

Faculty Advisor: Jennifer Ruesink, Department of Biology, University of Washington

Creating Green: Native Plant Restoration in Urban Spaces. Day 2

Tess Petrillo, Program on the Environment, University of Washington

Site Supervisor: Grace Stiller, Weed Warriors (Nature Stewards Program)

Faculty Advisor: Lubna Alzaroo, Program on the Environment, University of Washington

Bark & Ambrosia Beetle Dynamics: A New Lens for Forest Management Practices. Day 2

Abigail Rocke, Program on the Environment, University of Washington

Site Supervisor: Micaela Petrini, Great Peninsula Conservancy

Faculty Advisor: Patrick Tobin, School of Environmental and Forest Sciences, University of Washington

Briding Divides: Holistic Approaches to Managing Salmon and Forest Ecosystems Amidst Increasing Wildfires. Day 2

Nina Pursai, Program on the Environment, University of Washington

Site Supervisor: Ailene Ettinger and Michele Buonanduci, The Nature Conservancy

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

Storytelling as Co-design: Reframing Participatory Design Methodologies and Frameworks for Indigenous-led Climate Justice Work. Day 2

Kort Maeda, Program on the Environment, Visual Communication Design

Site Supervisor: Martha Groom, Doris Duke Conservation Scholars Program, School of Interdisciplinary Arts & Sciences, University of Washington

Faculty Advisor: Elizabeth Umbanhowar, Landscape Architecture, University of Washington

8:00 – 8:05 PM Closing Remarks

8:05 – 9:00 PM Symposium ends & celebration continues in lobby

A big **THANK YOU to all the faculty advisors, site supervisors, Program on the Environment Staff & Faculty, and to the audience for your support! We could not do this without you!**