Autumn 2023
Program on the Environment
CAPSTONE SYMPOSIUM
Event Program

Wednesday, November 29th, Online, 4:30 – 7:30 pm
(https://washington.zoom.us/s/95748800932)

Wednesday, December 6th, In-Person, 4:30 – 7:30 pm
(UW School of Aquatic Fisheries & Science FSH 102 & Lobby)

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

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

4:50 PM – 5:50 PM Poster Session A – Education & Outreach; Policy & Regulation

LIKE, COMMENT, AND SHARE: HOW SOCIAL MEDIA CAN BOOST ENGAGEMENT FOR TRANSIT JUSTICE
Session: A, Breakout Room: #1
Jasmine Barreto, @_jasminebarreto, Program on the Environment, Cinema & Media Studies, University of Washington
Site Supervisor: Keith Kyle, Seattle Subway Foundation
Faculty Advisor: Erin Gilbert, Program on the Environment, University of Washington

“GO GREEN! STORMWATER INFRASTRUCTURE” - BRIDGING THE EDUCATIONAL GAP BETWEEN HOMEOWNERS AND GSI
Session: A, Breakout Room: #2
Carina Baxter, carina_baxter36, Program on the Environment, University of Washington
Site Supervisor: Jenny Heins, Sustainable Ballard
Faculty Advisor: Jason Benscher, Athletics Department, University of Washington

LEARNING TO LIVE IN A CHANGING WORLD: PLANNING AGAINST THE THREAT OF EXTREME HEAT
Session: A, Breakout Room: #3
Julian Gonzales, @JulianG1021, Julian Gonzales*, Program on the Environment, University of Washington
Site Supervisor: Jillian Edge, Public Health - Seattle & King County, Preparedness Section
Faculty Advisor: Jeremy Hess, Emergency Medicine, Environmental & Occupational Health Sciences, and Global Health, University of Washington
DAM! BRIDGING THE DAM: PERCEPTION AND APPROACHES TO BEAVER-RELATED RESTORATION WORK IN SCATTER CREEK
Session: A, Breakout Room: #4
Florence Gonzalez-Martinez, Program on the Environment, University of Washington
Site Supervisor: Kirsten Harma, Chehalis Basin Partnership and Chehalis Basin Lead Entity for Salmon Recovery, Watershed Coordinator
Faculty Advisor: Gunwha Oh, Department of Geography, University of Washington

ROOTS OF CHANGE: ACTIONS PLANT CONSERVATORIES & BOTANICAL GARDENS CAN TAKE TO SHARE PLANT KNOWLEDGE IN MORE CULTURALLY INCLUSIVE WAYS
Session: A, Breakout Room: #5
Patrick Harper, @patrickk_harper, Program on the Environment, Global and Regional Studies, University of Washington
Site Supervisor: KL Bentrup and Lauren Moore, Friends of the Conservatory
Faculty Advisor: Brittny Johnson, School of Environmental and Forest Sciences, University of Washington

FINDING BARRIERS TO USING SALVAGED LUMBER AND SOLUTIONS TO INCREASE USE IN KING COUNTY
Session: A, Breakout Room: #6
Lauren Harris, Program on the Environment, Political Science, University of Washington
Site Supervisor: Kinley Deller and Alex Erzen, King County Solid Waste Division
Faculty Advisor: Indroneil Ganguly, School of Environmental and Forest Sciences, University of Washington

URBANIZATION OR GENTRIFICATION? THE BENEFITS AND CHALLENGES OF EXPANDING LINK LIGHT RAIL IN SEATTLE
Session: A, Breakout Room: #7
Palmer Holt, Program on the Environment, University of Washington
Site Supervisor: Keith Kyle, Seattle Subway Foundation
Faculty Advisor: Manish Chalana, Urban Design and Planning, University of Washington

THE GREENEST BELT: UNDERSTANDING THE MOTIVATIONS AND BARRIERS TO ENVIRONMENTAL VOLUNTEERING IN URBAN GREEN SPACES
Session: A, Breakout Room: #8
Matthew Koay, Program on the Environment, University of Washington
Site Supervisor: Linda Becker, Friends of Harrison Ridge
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

REIMAGINING THE SOUND TRANSIT DISTRICT: HOW A REVISED FARE MODEL COULD TRANSFORM THE REGION’S RELIANCE ON PUBLIC TRANSPORTATION
Session: A, Breakout Room: #9
Mae Langford, Program on the Environment, University of Washington
Site Supervisor: Keith Kyle, Seattle Subway Foundation
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington
USING REBATES TO PROTECT OUR WATERS: INCREASING EQUITABLE UTILIZATION IN THE RAINWISE REBATE PROGRAM FOR DISADVANTAGED COMMUNITIES
Session: A, Breakout Room: #10
Matthew Mason, Program on the Environment, University of Washington
Site Supervisor: Jenny Heins, Sustainable Ballard
Faculty Advisor: Sergey Rabotyagov, School of Environmental and Forest Sciences, University of Washington

ENVIRONMENTAL EDUCATION: EXPANDING ACCESS HERE, THERE, AND EVERYWHERE
Session: A, Breakout Room: #11
Caitlin Naqvi, @NaqviCait, Program on the Environment, University of Washington
Site Supervisor: Julia Glassy, Fiddleheads Forest School, University of Washington Botanical Gardens
Faculty Advisor: Faculty Advisor: Timothy Billo, Program on the Environment, University of Washington

OPPORTUNITIES FOR MINORITIES: HOW EXPANDING THE SCOPE OF ENVIRONMENTAL INTERNSHIPS CAN IMPROVE DIVERSITY
Session: A, Breakout Room: #12
Jaiden Reese, @jaidenreese22, Program on the Environment, University of Washington
Site Supervisor: Dan Tonnes, National Oceanic and Atmospheric Administration
Faculty Advisor: Kristie Ebi, Center for Health and the Global Environment, University of Washington

BRIDGING THE GAP BETWEEN TRADITIONAL WISDOM AND SCIENTIFIC ADVANCEMENTS
Session: A, Breakout Room: #13
Ayana Sabbas, Program of the Environment, University of Washington
Site Supervisor: Jason Gobin and Melissa Gobin, Tulalip Tribes Natural Resources
Faculty Advisor: Charlotte Coté, Department of American Indian Studies, University of Washington.

CIRCULAR ECONOMY ADOPTION IN CONSTRUCTION: STAKEHOLDER PERSPECTIVES AND STRATEGIES
Session: A, Breakout Room: #14
Anna Schmitz, @AnnaSchmitz56, Program of the Environment, University of Washington
Site Supervisor: Kinley Deller, King County Solid Waste Division and Alex Erzen, King County Department of Natural Resources and Parks
Faculty Advisor: Ben Packard, EarthLab, University of Washington

SOCIAL MEDIA FOR SOCIAL CHANGE: HOW NONPROFITS CAN USE SOCIAL MEDIA TO INCREASE STAKEHOLDER COMMUNICATIONS AND GAIN FUNDING
Session: A, Breakout Room: #15
Nina Shuken, Program on the Environment, University of Washington
Site Supervisor: Peter Donaldson, Sustainability Ambassadors
Faculty Advisor: Nives Dolsak, School of Marine and Environmental Affairs, University of Washington
DRY RIVER, WET EYES: AN EXPLORATION OF WHAT MAKES OR BREAKS COLLABORATION AS A TOOL FOR ENVIRONMENTAL PRACTITIONERS
Session: A, Breakout Room: #16
Gracie Thomsen, @gthomsenuw37, Program on the Environment, English
Site Supervisor: Alison Schweitzer and Mary Rabourn, King County Stormwater Services
Faculty Advisor: Yen-Chu Weng, Program on the Environment, University of Washington

BEAVERS: AGRICULTURE’S FOE TURNED FRIEND
Session: A, Breakout Room: #17
Charlotte Till, @CharlotteTilll, Program on the Environment, Business Administration: Entrepreneurship, University of Washington
Site Supervisor: Linda Lyshall, Snohomish Conservation District
Faculty Advisor: Clare Ryan, Environmental and Forest Science, College of the Environment, University of Washington

THE THREE C’S OF MARKETING TO UNDERSERVED COMMUNITIES: CONNECTION, COMMUNICATION, AND CULTURE
Session: A, Breakout Room: #18
Anna Marie Wing, @enviranna, Program on the Environment, University of Washington
Site Supervisor: Josh Epstein, NE Seattle Tool Library
Faculty Advisor: Rebakah Daro Minarchek, Integrated Social Sciences, International Studies, University of Washington

FROM DATA SCIENCE TO WORKFORCE DIVERSITY: REVOLUTIONIZING ENVIRONMENTAL RECRUITMENT STRATEGIES
Session: A, Breakout Room: #19
Shirley Yao, Program on the Environment, Information School, University of Washington
Site Supervisor: Dan Tonnes, National Oceanic and Atmospheric Administration
Faculty Advisor: Ott Toomet, Information School, University of Washington

5:50 PM – 6:00 PM BREAK

6:00 PM – 6:05 PM Session B Overview

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

6:15 PM – 7:15 PM Poster Session B – Agriculture & Food systems; Natural Science & Restoration; Sustainability

WHY WE SHOULD CARE ABOUT WETLAND AND HOW TO RESTORE IT EFFICIENTLY
Session: B, Breakout Room: #1
Justin Chao, @JustinChao1127, Program on the Environment, University of Washington
Site Supervisor: Grace Stiller, Weed Warriors, Nature Stewards Program
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington
MAKING FRUITFUL HABITATS: ESTABLISHING BEST PRACTICES FOR FRUIT GLEANING ORGANIZATIONS TO EASE THE EFFECTS OF CLIMATE CHANGE ON POLLINATORS
Session: B, Breakout Room: #2
Rachel Ellingwood, @ellinrac, Program on the Environment, University of Washington
Site Supervisor: Bennet Walkes, City Fruit
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

GROWING RESILIENCY: APPROACHING YEAR-ROUND FOOD SECURITY IN THE GREATER SEATTLE AREA
Session: B, Breakout Room: #3
Althea Ericksen, @altheaericksen1, Program on the Environment, University of Washington
Site Supervisor: Perry Acworth, The UW Farm
Faculty Advisor: Eli Wheat, Program on the Environment

DON'T SAVE ALL THE TREES! ENSURING THE SURVIVAL OF PACIFIC NORTHWEST FORESTS THROUGH ECOLOGICALLY-FOCUSED THINNING TREATMENT
Session: B, Breakout Room: #4
Jessica Fragoso, @jessicanoemifr1, Program on the Environment, University of Washington
Site Supervisor: Rowan Braybrook, Northwest Natural Resource Group
Faculty Advisor: Ernesto Alvarado, School of Environmental and Forest Sciences, University of Washington

GOING WITH THE FLOW: HARNESSING SOCIAL NORMS FOR REUSABLE WATER BOTTLE ADOPTION
Session: B, Breakout Room: #5
Amelie Gahagan, @GahaganAmelie, Program on the Environment, Foster School of Business, University of Washington
Site Supervisor: Liesel Hans, Alliance for Water Efficiency
Faculty Advisor: Sergey Rabotyagov, School of Environmental and Forest Sciences, University of Washington

DRINKING RESPONSIBLY: THE ROLE OF SUPPLIER PERFORMANCE ASSESSMENTS IN COLLABORATIVE SUSTAINABLE SUPPLY CHAIN MANAGEMENT
Session: B, Breakout Room: #6
Emma Haener, @EmmaHaener, Program on the Environment, University of Washington
Site Supervisor: Erik Throndsen, Talking Rain Beverage Company
Faculty Advisor: Ben Packard, EarthLab, University of Washington

O, SOIL! WHAT O HORIZON THICKNESS CAN TELL US ABOUT SUMMER SOIL MOISTURE IN PACIFIC NORTHWEST FORESTS AMIDST GLOBAL WARMING
Session: B, Breakout Room: #7
Niki Kirihara, @nikiKirihara, Program on the Environment, University of Washington
Site Supervisor: Rowan Braybrook, Northwest Natural Resource Group
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington
NAVIGATING THE FUTURE: SUSTAINABLE LAND SURVEYING TECHNIQUES
Session: B, Breakout Room: #8
Darcy McCluskey, @darcy_mccluskey, Program of the Environment, Environmental Studies, University of Washington
Site Supervisor: Brian Belvis, 1 Alliance Geomatics
Faculty Advisor: Gerald Beltran, Sellen Construction and University of Washington

EVALUATING A RURAL COMMUNITY’S FOOD ENVIRONMENT: HOW FOOD ACCESS PROGRAMS AT A FARMERS MARKET CAN IMPROVE FOOD EQUITY
Session: B, Breakout Room: #9
Leila Misallati, Program on the Environment, University of Washington
Site Supervisor: Lindsay Gilliam, Carnation Farmers Market
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

TRACKING THE TIDE: INVESTIGATING CRAB BIODIVERSITY AND SPAWN TIMING SHIFTS
Session: B, Breakout Room: #10
Christine Nguyen, @ChristineSzR, Program on the Environment, University of Washington
Site Supervisor: Aeriel Wauhob, Highline MaST Center Aquarium
Faculty Advisor: John Horne, School of Aquatic and Fishery Sciences, University of Washington

WORKING HARD OR HARDLY WORKING? HOW TO INCREASE EMPLOYEE ENGAGEMENT WITH SUSTAINABILITY
Session: B, Breakout Room: #11
Jen Ortiz, @JenO_capstone, Program on the Environment, University of Washington
Site Supervisor: Erik Throldson, Talking Rain
Faculty Advisor: Fred Pursell, Foster School of Business, University of Washington

CREATING FRUITFUL COMMUNITIES: IDENTIFYING BARRIERS AND SOLUTIONS TO ESTABLISHING AN EQUITABLE FOOD SYSTEM THROUGH URBAN AGRICULTURE
Session: B, Breakout Room: #12
Mya Sands, @myasando, Program on the Environment, University of Washington
Site Supervisor: Tiare Gill, City Fruit
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

CONVENTIONS, CARBON, AND CENTRALITY: METHODS FOR REDUCING EMISSIONS FROM TRAVEL IN THE EVENT AND CONVENTION INDUSTRY
Session: B, Breakout Room: #13
Erin Schobbe, @erinschobbe, Program on the Environment, University of Washington
Site Supervisor: Robert Gottschalk, AQ Green TeC
Faculty Advisor: Caitlin Ainsley, Department of Political Science, University of Washington
DRIVING CHANGE: SOLAR-POWERED TRANSPORTATION PATH TO A CARBON-FREE FUTURE
Session: B, Breakout Room: #14
Eddie Shelton, Program of the Environment, University of Washington
Site Supervisor: Jaime Cantos, Merlin Solar
Faculty Advisor: Barry Erickson, Foster School of Business, University of Washington

THE ROLE OF SOCIAL NORMS IN WATER CONSERVATION BEHAVIOR INTERVENTIONS
Session: B, Breakout Room: #15
Rhea Shinde, @rheashinde2, Program on the Environment, Philosophy, University of Washington
Site Supervisor: Site supervisor: Liesel Hans, Alliance for Water Efficiency
Faculty Advisor: Salar Jahedi, Affiliate Professor, Economics, University of Washington and Principal Economist, Amazon

HARVESTING SOLUTIONS: A STUDY OF BARRIERS TO ACCESS WITHIN ALTERNATIVE FOOD NETWORKS
Session: B, Breakout Room: #16
Ella Simmons, @ell_a_simmon, Program on the Environment, University of Washington
Site Supervisor: Shannon Bly, Whidbey Island Grown
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

REGENERATING PACIFIC NORTHWEST SALMON HABITAT THROUGH RIPARIAN RESTORATION
Session: B, Breakout Room: #17
Felicity Strzelec, @fsstrz, Program on the Environment, University of Washington
Site Supervisor: Whitney Neugebauer, Whale Scout
Faculty Advisor: Jason Toft, University of Washington School of Aquatic and Fishery Sciences

BE A GOOD SPORT, DON’T FORGET TO SORT: BEST PRACTICES FOR WASTE DIVERSION PROGRAMS IN SPORTS STADIUMS
Session: B, Breakout Room: #18
Maysen Westling, Program on the Environment, University of Washington
Site Supervisor: Karen Baebler, University of Washington Athletics
Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

SUSTAINABLE ONLINE PRODUCE: GREEN MARKETING & KEY VARIABLES INFLUENCING CONSUMER PURCHASING BEHAVIOR
Session: B, Breakout Room: #19
Serena Zheng, Program on the Environment, University of Washington
Site Supervisor: Josh DeWitt, Kitsap Fresh Local Food Online
Faculty Advisor: Betsy Sperry, Marketing and International Studies, Foster School of Business, University of Washington

7:15 PM – 7:30 PM Closing Remarks
4:30 PM – 4:40 PM Welcome & Housekeeping
4:40 PM – 5:10 PM Poster Highlights** & Refreshments
5:10 PM – 5:20 PM BREAK
5:20 PM – 5:25 PM Session Introduction
5:25 PM – 6:25 PM Lightning Talks Session A

**MYCO-FILTRATION FOR CLIMATE RESILIENCE AND CIRCULARITY**
Session: Day 2, In-Person
Keya Roy, @KeyaRRoy, Program on the Environment, University of Washington
Site Supervisor: Tatiana Brown, University of Washington Campus Sustainability Fund
Faculty Advisor: Ken Yocom, Landscape Architecture, University of Washington

**FROM FIELDS TO TABLES: THE POWER OF FOOD PRESERVATION IN GLEANING ORGANIZATIONS**
Session: Day 2, In-Person
Ezra Thomason, @oliveplanter, Program on the Environment, University of Washington
Site Supervisor: Bennett Walkes, City Fruit
Faculty Advisor: Yona Sipos, Department of Environmental and Occupational Health Sciences, University of Washington

**SMALL BUT MIGHTY: FORAGE FISH SIGNAL THE NEED FOR SHORELINE RESTORATION IN THE PUGET SOUND**
Session: Day 2, In-Person
Arianna Fardad, Program on The Environment, University of Washington
Site Supervisor: Bianca Perla, Vashon Nature Center
Faculty Advisor: Jason Toft, Principle Research Scientist, Wetland Ecosystem Team, UW School of Aquatic and Fishery Sciences
INTEGRATED IS BEST: HOW LIGHT RAIL AND BUSES WORKING IN CONJUNCTION WILL INCREASE THE USABILITY OF SEATTLE’S TRANSIT SYSTEM
Session: Day 2, In-Person
Jordan Priest, Program on the Environment, University of Washington
Site Supervisor: Arthur Bachus, Seattle Subway Foundation
Faculty Advisor: Lyle Bicknell, University of Washington

TRANSIT-ORIENTED-DEVELOPMENT (TOD): A BLESSING OR ROADMAP TO GENTRIFICATION?
Session: Day 2, In-Person
Aliyah Recasner, @Aliyah_UW, Program on the Environment, University of Washington
Site Supervisor: Arthur Bachus, Seattle Subway Foundation
Faculty Advisor: Kessie Alexandre, Department of Geography, University of Washington

FROM THE GROUND UP: HOW TO INCORPORATE COMMUNITY VOICES ON ENVIRONMENTAL JUSTICE INTO THE NATIONAL ENVIRONMENTAL POLICY ACT
Session: Day 2, In-Person
Lucy Toner, @lucyjtoner, Program on the Environment, Law, Societies & Justice, University of Washington
Site Supervisor: Arthur Bachus, Seattle Subway Foundation
Faculty Advisor: Lawrence Watters, Guest Faculty in Environmental Law, University of Washington

6:25 PM – 6:40 PM Intermission

6:40 PM – 7:40 PM Lightning Talks Session B

TO BETTER SERVE OUR COMMUNITIES: INFORMING GOVERNMENT STAFF ON CONNECTIONS BETWEEN CLIMATE CHANGE AND SOCIAL JUSTICE
Session: Day 2, In-Person
Lyn Tampi, @LynTampi, Program on the Environment, School of Public Health, University of Washington
Site Partner: Vicky Raya, King County Department of Natural Resources and Parks
Faculty Advisor: Meagan Doll, Department of Communication, University of Washington

CREATE YOUR OWN PATH: FIVE WAYS TO HELP CHILDREN MAKE BETTER CONNECTIONS WITH THE ENVIRONMENT
Session: Day 2, In-Person
Olivia Johnson, @oliviacjohnson, Program on the Environment, University of Washington
Site Partner: Amanda Hipp, Islandwood
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington
CONSERVE TO PRESERVE: HOW CITIES AND CITIZENS CAN COLLABORATE TO PROTECT WATER RESOURCES
Session: Day 2, In-Person
Lauren Church, @laurenchurch_, Program on the Environment, University of Washington
Site Partner: Kirsten Harma, Chehalis Basin Partnership
Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

CO-PRODUCING HOPE: EXPLORING THE BENEFITS AND CHALLENGES OF COMMUNITY-ENGAGED LEARNING IN UNIVERSITIES TO ENHANCE CLIMATE RESILIENCE
Session: Day 2, In-Person
Isabella Garrido, @bella_capstone, Program on the Environment, University of Washington
Site Partner: Zackery Thill, Climate Impacts Group, University of Washington
Faculty Advisor: Megan Ybarra, Department of Geography, University of Washington

SAVING THE ENDANGERED BLACK ABALONE: RECOMMENDATIONS FOR TRANSLOCATIONS AND CHARACTERIZING JUVENILE RECRUITMENT HABITAT
Session: Day 2, In-Person
Tiffany Shin, @tiffanyshin6, Program on the Environment, Political Science, University of Washington
Site Partner: Susan Wang, National Marine Fisheries Service, West Coast Region
Faculty Advisor: Lawrence Watters, Visiting Faculty of the College of the Environment, University of Washington

TACKLING TRASH: UNDERSTANDING HUMAN WASTE BEHAVIOR IN HUSKY STADIUM
Session: Day 2, In-Person
Riley Ramirez, Program on the Environment, University of Washington
Site Partner: Karen Baebler, UW Athletics
Faculty Advisor: Christian Primack Metcalfe, Foster School of Business, University of Washington

7:40 PM – 8:30 PM Symposium ends & celebration continues in Lobby

WE THANK YOU to all faculty advisors, site supervisors, Program on the Environment staff and to the audience for your support. We could not have done any of this without you!