

**Cleo Woelfle Hazard**  
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### **RESEARCH AND TEACHING INTERESTS**

My work combines feminist science studies, Indigenous studies, political ecology, and aquatic ecology as part of a new field: critical physical geography. I focus on:

- The legacies of settler-colonial resource extraction and water governance as embodied in attempts to manage and restore the hydroscape.
- The co-generation of knowledge in management projects led by Native nations, and centering place-based knowledges and Indigenous protocol.
- The politics of environmental science and the construction of scientific expertise outside the academy.
- Watershed-scale interventions to sustain streamflow as climate change reduces snowpack, including cultural fire, wet meadow restoration, and beaver relocation.

### **EDUCATION**

- UC Berkeley PhD in Energy and Resources, May 2015.  
Isha Ray & Stephanie Carlson (co-chairs), Laurel Larsen, Jeff Romm, Kim TallBear
- UC Berkeley MS in Energy and Resources, concentration in Social Science, 2012  
Isha Ray & Kara Nelson (co-chairs)
- U. Montana BS in Interdisciplinary Geosciences, concentration in fluvial geomorphology, 2009.

### **POSITIONS HELD**

- 2017 – Assistant Professor, School of Marine and Environmental Affairs, UW Seattle
- 2017 – Adjunct Assistant Professor, Comparative History of Ideas, UW Seattle
- 2021 – Adjunct Assistant Professor, Department of Landscape Architecture, UW Seattle
- 2016 – 2017 UC President's Postdoctoral Scholar, Feminist Studies, UC Santa Cruz
- 2016 Postdoctoral Fellow, Institute for Advanced Study in STS, Alpen-Adria Universitaet
- 2015-16 Postdoctoral Researcher, Carlson Lab, Environmental Science, Policy, and Management Department, UC Berkeley.

### **Research**

### **FUNDING (\$3.3 M; \$1.3 M AS LEAD PI)**

#### **External**

- 2022-2025 Malone. M., **C. Woelfle Hazard**, C. de Almeida, B. Johnson. The Duwamish Valley Research Coordination Network: Building Capacity for Tribal, Community, and Agency Research in Urban Watersheds." EPA-STAR-84048301, \$1,265,702.

- 2022-2024 **C. Woelfle Hazard**, Lisa Morehead-Hillman (Karuk), “Informing Klamath River Restoration Planning with Indigenous spatial analysis and community-identified relational values: Pêeshkeesh Yáv Umúsaheesh.” NSF-STC-2217990, \$504,991
- 2021-2024 E. Hennessy, M. McKinney de Royston, R. J. Hougham, C. Bauer-Armstrong, E. Marín-Spiotta; R. Rider, T. Michelson-Ambelang, C. Clark-Pujara, **C. Woelfle Hazard**, M. M. White, T. Reeves. Mellon Just Futures Initiative, “Humanities Education for Anti-racism Literacy in the Sciences and Medicine (HEAL-STEMM).” \$5,000,000 (UW share: \$450,000).
- 2021-2023 **C. Woelfle Hazard** “Centering climate adaptation science and policy in Indigenous ecocultural practice to restore ecohydrological processes in the Klamath River basin, California.” NCAR Early Career Innovators Fellowship, \$400,000.
- 2021-2023 C. Rutherford, C. Poleacovschi, **C. Woelfle Hazard**, K. Strauss. “NNA Planning: Community-based Mitigation and Adaptive Strategies for River Flooding and Erosion in Alaska Native Communities.” NSF-NNA-2127333. \$300,000, (UW share: 27,000).
- 2014-2015 **C. Woelfle Erskine**. NSF Doctoral Dissertation Research Improvement Grant-Geography and Spatial Science, \$16,000. (L. Larsen PI)
- 2011-2014 **C. Woelfle Erskine**. NSF Graduate Research Fellowship, \$94,000.
- 2016-2017 **C. Woelfle Erskine**. UC President’s Postdoctoral Fellowship, \$50,000.
- 2008 **C. Woelfle Erskine**. Morris K. Udall Environmental Scholarship, \$5000.
- 2008 **C. Woelfle Erskine**. NSF EPSCoR Undergraduate Research Award, \$3000.

#### **Internal**

- 2022-23 **C. Woelfle Hazard**, C.M. Duncan. “Stream modeling of climate adaptation restoration to protect cold water habitat for salmon in the Klamath River basin, California” Northwest Climate Adaptation Science Center, \$74,000.
- 2020-2021 **C. Woelfle Hazard**, Malone. M, C. de Almeida, K. Dew. “Co-creating an Adaptive community-Science Network: Supporting Tribal and Grassroots Action through the Puget Creek Watershed Assessment.” Urban@UW Spark Grant, \$20,000 (\$5000 co-award to Duwamish Tribal Services).
- 2020-2021 **C. Woelfle Hazard**, S. Bourque, J. Hazard. “Practicing Píkyav on the Mid-Klamath: Peeshkêesh Yáv Umúsaheesh.” EarthLab Innovation Grant, \$75,000 (\$32,000 co-award to the Karuk Tribe DNR.
- 2020-2022 **C. Woelfle Erskine**. “Using Indigenous science and spatial historical analysis to transform Klamath River Restoration planning.” UW Royalty Research Fund Grant, \$38,000.
- 2020-2021 **C. Woelfle Erskine**. “Underflows: Transfiguring Rivers, Queering Ecology.” Society of Scholars Fellowship, Simpson Center for the Humanities, \$28,000.
- 2018-2019 **C. Woelfle Erskine**, J. Liou. “Recovering salmon and streamflow in Shackleford Creek” co-award to Quartz Valley Indian Community. Northwest Climate Adaptation Science Center, \$74,000.
- 2017-2018 **C. Woelfle Erskine**, A. Bagley, “Investigating Cold Water Refugia for Chinook Salmon on the Stillaguamish River”, Northwest Climate Adaptation Science Center, \$69,000.

## AWARDS

- 2019**      **Ann Kolodny Prize**, American Studies Association’s Environment and Culture Caucus, “With and For the Multitude: Ecology as Queer Acts”.
- 2015**      **Society for Social Studies of Science Making and Doing Award**, “Tell a Salmon”.

## MONOGRAPH

**Wölfle Hazard**, Cleo. 2022. *Underflows: Queer Trans Ecologies and River Justice*. Seattle, WA: University of Washington.

### Academic Reviews of *Underflows*

- D. Lorenz-Meyer, J. Taylor. 2022. “Climate Action: Transforming, Infrastructure, Cultivating Attentiveness, Practicing Solidarity. *Sociální studia / Social Studies* 5–9.
- L. Goldsmith, *Antipode online*, July 19, 2022.
- D. Slabaugh *LSE Review of Books*. July 28, 2022.

### Popular Media Interviews/Coverage of *Underflows*:

- Seattle Audubon Society. “Five Books that Celebrate Sexual Diversity in People and Nature.” May 31, 2022. <https://seattleaudubon.org/2022/05/31/five-books-that-celebrate-sexual-diversity-in-people-and-nature/>
- S. Clare, discussant. “Queer Trans Ecologies and River Justice.” May 27, 2022. Town Hall Seattle Science Series, <https://player.fm/series/town-hall-seattle-science-series/ep-183-cleo-wolfle-hazard-with-stephanie-clare-queer-trans-ecologies-and-river-justice>
- S. Danielson, New Books Network (Geography and Environmental Studies). May 23, 2022. <https://newbooksnetwork.com/underflows>.

## EDITED VOLUMES AND HANDBOOKS

- Woelfle-Erskine, C.** and A. Uncapher. 2012 *Creating Rain Gardens*. Portland, Oreg.: Timber Press.
- Woelfle-Erskine, C.**, J.O. Cole, L. Allen, eds. 2007. *Dam Nation: Dispatches from the Water Underground*. New York: Soft Skull Press.
- Woelfle-Erskine, C.** 2001. *Urban Wilds: Gardeners’ Stories of the Struggle for Land and Justice*. Oakland: water/under/ground publications.

## ARTICLES

Shah, S, O’Lenick, C., Ramos-Valle, A., Wan, J.S., Wilhelmi, O.V., Ash, K., Edgeley, C. M., Molina, M.J., Moulite, J., Pizarro, C.C., Emard, K., Cameron, O.Z., Dome, J.M., Woelfle-Hazard, C., Hopson, T., Jones, M., Lacey, F., Lachaud, M. A., Lombardozzi, D., Méndes, M., Morss, R., Ricke, K., Tormos-Aponte, F., Wieder, W.R., Williams, C.L. In review. Connecting Physical

and Social Science Datasets: Challenges and Pathways Forward. *Environmental Research Communications*.

- Emard, K., Edgeley, C.M., **Woelfle Hazard, C.**, Sarna-Wojcicki, D., Cannon, W., Cameron, O., Lombardozzi, D., Hillman, L. Pearse, S., McCovey, K. Submitted. Participatory Methods and Climate Science Models: Pathways for Incorporating Local Ecological Knowledge. *Ecology & Society*.
- Michael T. Bogan, **Cleo Woelfle-Hazard**, Stephanie M. Carlson. Sensing ecological responses to rivers running dry. Resubmitted to *Frontiers in Ecology and Evolution*.
- Klein, Samantha,\* James Sanghyun Lee,\* Sofi Courtney,\* Lisa Morehead-Hillman, Sallie Lau,\* Bryce Lewis-Smith,\* Daniel Sarna-Wojcicki, and **Cleo Woelfle-Hazard**. 2022. “Transforming Restoration Science: Multiple Knowledges and Community Research Cogeneration in the Klamath and Duwamish Rivers.” *The American Naturalist* 200, no. 1 (July 2022): 156–67. <https://doi.org/10.1086/720153>.
- Schell, Christopher J., Karen Dyson, Tracy L. Fuentes, Simone Des Roche, Nyeema C. Harris, Danica Sterud Miller, **Cleo A. Woelfle-Erskine**, Max R. Lambert. 2020. The ecological and evolutionary consequences of systemic racism in urban environments. *Science*.
- Pablo Rodríguez-Lozano, **Cleo Woelfle-Erskine**, Michael T. Bogan, Stephanie M. Carlson. 2020. Are Non-Perennial Rivers Considered as Valuable and Worthy of Conservation as Perennial Rivers? *Sustainability* 12 (14).
- Weir, Jessica K., **Woelfle-Erskine, C.**, S. Fuller, S. Diver, and M. Higgins. 2019. Doctoral Fieldwork Experiences With and Without Indigenous Communities in Settler-colonial Societies. *ACME: An International E-Journal for Critical Geographies*.
- Woelfle-Erskine, C.** 2019. Settler sexualities in and through fish culture. *Imaginations*, Special Issue: Critical Relationality: Indigenous and queer belonging beyond settler sex and nature.
- Woelfle-Erskine, C.** 2019. Beavers as commoners? Invitations to river restoration work in a beavery mode. *Community Development Journal*, Special Issue, Water and the Commons.
- Larsen, L. G. and **C. Woelfle-Erskine**. 2018. Groundwater is key to salmonid persistence and recruitment in intermittent Mediterranean-climate streams. *Water Resources Research*.
- Ray, Isha, N. Billava, Z. Burt, J. Colford, Jr., A. Ercümen, K.P. Jayaramu, E. Kumpel, N. Nayak, K. Nelson, **C. Woelfle-Erskine**. 2018. From intermittent to continuous water supply: A household-level evaluation of water system reforms in Hubli-Dharwad, Karnataka. *EPW*.
- Datry, T., A. Foulquier, R. Corti, D. von Schiller, K. Tockner, C. Mendoza-Lera, J. C. Clément, [...] **C. Woelfle-Erskine** et al. 2018. “A Global Analysis of Terrestrial Plant Litter Dynamics in Non-Perennial Waterways.” *Nature Geoscience* 11 (7): 497–503. <https://doi.org/10.1038/s41561-018-0134-4>.
- Kumpel, E., **C. Woelfle-Erskine**, I. Ray, and K. Nelson. 2017. Measuring household consumption and waste in unmetered, intermittent piped water systems. *Water Resources Research*.
- Woelfle-Erskine, C.** 2017. The watershed body: Transgressing frontiers in riverine sciences, planning stochastic multispecies worlds. *Catalyst*, Special Issue: Feminist Theory Out of Science.
- Woelfle-Erskine, C.** 2017. Collaborative approaches to flow restoration in intermittent salmon-bearing streams: Salmon Creek, CA, USA. *Water*, Special Issue: Variability in Mediterranean-Climate Waters: Space, Time, and Intensity. doi: 10.3390/w9030217

- Woelfle-Erskine, C.** Larsen, Laurel G., and Stephanie M. Carlson. 2017. Abiotic habitat thresholds for salmonid over-summer survival in intermittent streams. *Ecosphere*. doi: 10.1002/ecs2.1645
- Woelfle-Erskine, C.** and J. Cole, 2015. Transfiguring the Anthropocene: Stochastic re-imaginings of human-beaver worlds. *Transgender Studies Quarterly*, Special Issue: Transimacies. doi: 10.1215/23289252-2867625
- Woelfle-Erskine, C.** 2015. "Rain tanks, springs, and broken pipes as emerging water commons along Salmon Creek, CA, USA." *ACME: An International E-Journal for Critical Geographies*, Special Issue: Researching household water practices.
- Woelfle-Erskine, C.** 2014. "Thinking with salmon about rain tanks: commons as intra-actions." *Local Environment*, Special Issue: Rainwater practices and management in a variable climate. doi: 10.1080/13549839.2014.969212
- Woelfle-Erskine, C.,** A. C. Wilcox, and J. N. Moore. 2012. "Combining historical and process perspectives to infer ranges of geomorphic variability and inform river restoration in a wandering gravel-bed river." *Earth Surface Processes & Landforms*. doi: 10.1002/esp.3276.

### BOOK CHAPTERS

- Woelfle-Erskine, C.** and D. Sarna-Wojcicki. In press. Multispecies politics in amphibious worlds: how beaver collaborations remix patterns of wet and dry in northern California streams. In F. Krauz and L. Cortesi, eds., *Amphibious Anthropologies: Human lives between wet and dry*. Seattle, WA: University of Washington Press.
- Woelfle-Erskine, C.** 2019. Grieving salmon and the politics of collective ecological field work. In P. J. Lopez and K. Gillespie, eds. *Vulnerable Witness: The Politics of Grief in the Field*. Berkeley, CA: University of California Press.
- Woelfle-Erskine, C.** 2015. "Connecting rain to taps and drains to gardens: Emerging cultural waterscapes in California cities." in Lassiter, A. ed., *The Sustainable Water Reader: Lessons from California for the 21st Century*, University of California.

### POPULAR ARTICLES

- Woelfle-Erskine, C.** and L. Allen, "From Laundry to Landscape: Tap Into Greywater", in *Mother Earth News*, 2011.
- Woelfle-Erskine, C.** "Riparian Repair" in *High Country News*, August 25, 2008. Analysis of restoration and remediation projects on the Clark Fork River, Montana.
- Woelfle-Erskine, C.,** J.O. Cole, "Rebuilding on Poisoned Ground", *ColorLines*, Spring 2006.
- Woelfle-Erskine, C.,** K. Lydersen, "Drying Up: The Water Privatization Pandemic" in *LiP*, Summer 2004.
- Woelfle-Erskine, C.** *Sink or Swim: A History of Sausal Creek* (children's book) Oakland: water/under/ground publications, 2004.

### REPORTS

- Ramos, P., A. Deen, A. Vanderwarker, **C. Woelfle-Erskine**, *Thirsty for Justice: A People's Blueprint for California Water*, The Environmental Justice Coalition for Water, 2005 (ejcw.org).
- Woelfle-Erskine, C.,** Lanza, D., eds. 2003. *Calling Nature Home: Restoring Environmental Justice in an Urban Wetland* San Francisco: Literacy for Environmental Justice. (curriculum).

## PUBLICATIONS IN PREPARATION

### ACADEMIC PRESENTATIONS

Carlson, Stephanie, S. Kelson, C. Woelfle Hazard, Sarah Gallagher, Nathan Queener, Allen Renger. “Flow-phenology mismatches drive reduction of salmonid fishes near their southern edge.” World Fisheries Congress, Seattle, Washington, March 4 2024.

Daniel Sarna-Wojcicki, **C. Woelfle-Hazard**. “Riparian Repair Along Karuk Cultural Landscapes.” Association of American Geographers annual meeting, Denver, CO, March 26, 2023.

**C. Woelfle-Hazard**, R. Lave, M. Tadaki, J. Clapcott, E. Kincaid, R. Collard. Authors Meets Critics panel for *Underflows*. Association of American Geographers annual meeting, Denver, CO, March 28, 2023.

Panelist for “Reworking feminist geographies toward queer and trans inclusion”, Association of American Geographers annual meeting, Denver, CO, March 27, 2023.

**C. Woelfle-Hazard**, J. H. Lee, A. Schraeder, H. Weaver, M. Packer. Authors Meets Critics panel for *Underflows*. Association of American Geographers annual meeting, Denver, CO, March 28, 2023.

**C. Woelfle-Hazard**, Catherine de Almeida, Amir Sheikh, Melanie Malone. “Waste relations: Drawing on Duwamish Valley community archives to design contaminant sampling and envision cleaner futures.” American Studies Association annual meeting, New Orleans, LA, November 7 2022.

**C. Woelfle-Erskine**, Melanie Malone, Catherine de Almeida, Kristin Dew, George Thomas, Jr.,\* Samantha Klein,\* and James Lee.\* “Co-producing the Watershed: polyvocal data and situated knowledges in the Duwamish River Research Coordination Network.” Association of American Geographers annual meeting (virtual), April 9 2021.

Alex Sweetzer\* and **C. Woelfle-Erskine**, 2020. “We kept going until we got it done’: The Lower Elwha Klallam Tribe and government to government relationships in the Elwha Dam Removal”. Salish Sea Ecosystem Conference (virtual), April 20-21 2020.

July Hazard and **Cleo Woelfle-Erskine** 2019. “Research Poetics Field Studio, or, How to subvert your observations every day.” Making & Doing session, Society for the Social Study of Sciences annual meeting, New Orleans, LA, September 6, 2019

**Cleo Woelfle-Erskine** 2019. “Queer temporalities in river sciences.” Society for the Social Study of Sciences annual meeting, New Orleans, LA, September 6, 2019

**Cleo Woelfle-Erskine** 2019. “With and For the Multitude: Ecology as Queer Acts.” American Studies Association Annual Meeting, Honolulu, HI, November 7 2019.

**Cleo Woelfle-Erskine** 2019. “Design With, For, and As Brown Commons: Thinking with Muñoz along the Duwamish Waterway”. Society for Applied Anthropology conference, Portland, OR, March 22, 2019.

**Cleo Woelfle-Erskine** 2019. “Thinking With Salmon About Drought: Local knowledge, more-than-human commons, and hyporheic imaginaries.” Dimensions of Political Ecology conference, Lexington, KY, February 22, 2019, panel co-organizer (Robert Anderson\*), “Critical and Imaginative Restoration Ecologies.”

Cori Currier\* and **C. Woelfle-Erskine**, 2018. “Spaces for people and salmon: balancing shoreline restoration priorities in a complex urban estuary” (poster). Restore America’s Estuaries Conference, Long Beach, CA, December 8, 2018.

- C. Woelfle-Erskine** 2018. "With and For the Multitude: Cruising a Waterfront with José Esteban Muñoz." National Women's Studies Association annual meeting, Atlanta, Georgia, November 9, 2018.
- C. Woelfle-Erskine** 2018. "Streamflow restoration for salmon recovery: a collaborative science process." Society for Ecological Restoration / Society for Wetland Scientists Joint Northwest Chapter meetings, Spokane, WA, October 11-15 2018.
- Ashley Bagley\* and **C. Woelfle-Erskine** 2018. "Evaluating temperature buffering capacity of floodplain side channels to promote refugia for salmonids in the Stillaguamish River Basin. (poster). Society for Ecological Restoration / Society for Wetland Scientists Joint Northwest Chapter meetings, Spokane, WA, October 11-15 2018. Winner of Student Best Poster Prize.
- Cleo Woelfle-Erskine** 2018. "Animating water through beaver encounters." Dimensions of Political Ecology Conference. University of Kentucky, Lexington, KY, February 22-24 2018.
- Cleo Woelfle-Erskine** 2017. "Fishy Pleasures: Settler sexualities in fish hatching and fish catching on US frontiers." Environmentalism Outside the Box: An Ecosex Symposium. UC Santa Cruz, Santa Cruz, CA, May 18-19 2017.
- Stephanie M. Carlson, S.J. Kelson, **C. Woelfle-Erskine**, S.E. Thompson, and M.E. Power, C. Renger. 2017. "Extreme Drought Drives Range Contraction of Salmonid Fishes." Cal-Neva American Fisheries Society meeting, Fortuna, CA, April 5-7 2017.
- Larsen, L., **C. Woelfle-Erskine**, S. Carlson, and R. Neuhausler. 2017. "Effects of extreme drought on the organic carbon dynamics and hydroecology of intermittent, salmon-bearing streams." Invited talk at American Geophysical Union Chapman Conference on Extreme Event Climate Impacts on Aquatic Biogeochemical Cycles and Fluxes. San Juan, Puerto Rico, January 22-27 2017.
- Woelfle-Erskine, C.**, Laurel G. Larsen, Stephanie M. Carlson. "Groundwater's role in mediating juvenile over-summer survival: flow and dissolved oxygen in extreme drought." American Fisheries Society annual meeting, Portland, OR, August 17, 2015.
- Woelfle-Erskine, C.**, Laurel G. Larsen, Stephanie M. Carlson. "Quantifying abiotic habitat characteristics to determine thresholds for salmonid over-summer survival in intermittent streams." Cal-Neva chapter meeting of the American Fisheries Society, Santa Cruz, CA, April 10, 2015.
- Woelfle-Erskine, C.**, Laurel G. Larsen. "Influence of intermittent stream connectivity on water quality and salmonid survivorship. American Geological Union annual meeting, San Francisco, CA, December 17, 2015.
- Woelfle-Erskine, C.** and J. Cole. "Trans-species improvisation at riparian frontiers." National Women's Studies Association, San Juan, Puerto Rico, November 15, 2014.
- Woelfle-Erskine, C.** "Mobilizing local knowledge and expert science in beaver-salmon worlds: Cases from California." Society for the Social Studies of Science, Buenos Aires, Argentina, August 20, 2014.
- Woelfle-Erskine, C.**, J. Hildebrand, L. L. Larsen, S. M. Carlson. "Quantifying abiotic habitat characteristics to determine thresholds for salmonid over-summer survival in intermittent streams" (poster). Ecological Society of America, Sacramento, CA, August 15, 2014.

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\* Graduate student or postdoc

- Woelfle-Erskine, C.** “Friction and entanglements in governance of salmon streams.” American Association of Geographers, Tampa, FL, April 9, 2014.
- Woelfle-Erskine, C.** and D. Sarna. “The Manifest Reversals of multi-species watershed collaboration.” Dimensions of Political Ecology, Lexington, KY April 1, 2014.
- Woelfle-Erskine, C.,** S.M. Thompson. “Integrating terrestrial laser scanning and repeat field measurements to quantify habitat changes during baseflow recession,” Abstract EP41E-05, American Geophysical Union fall meeting, December 9, 2013.
- Woelfle-Erskine, C.** “Sustainability for salmon? Climate adaptation in coastal California” University of Arizona / Marine Biological Laboratory Workshop on the History of Sustainability Science, Woods Hole, MA, May 11-16, 2013
- Woelfle-Erskine, C.** and D. Sarna. “Dam ‘em all: Beaver believers, beaver deceivers, and other watershed entanglements.” Funny Kinds of Love, Center for Science, Technology, Medicine, and Society, UC Berkeley, May 9, 2013.
- Woelfle-Erskine, C.** “Finding commons at the human-water interface,” Tapping the Turn: Water’s Social Dimensions, Canberra, Australia, November 16, 2012.
- Woelfle-Erskine, C.,** A. Merenlender. “Do Salmon Want Humans to Catch More Rain? A GIS Exploration,” (poster) SCBNA Ann. Meet. 2012, Abstract 471.
- Woelfle-Erskine, C.,** Z. Burt. “From intermittent to 24/7: Complicated effects and conflicting perspectives,” Paradigms for Water, Sanitation & Hygiene for the 21st Century S. Asian City, UC Berkeley Center for S. Asian Studies, April 25, 2012.
- Woelfle-Erskine, C.** “Investigating water waste under intermittent water supply in India”. Stanford Water Health & Development Workshop, April 15, 2011.
- Woelfle-Erskine, C.,** A.C. Wilcox, 2009. “Historical perspectives on channel pattern in the Clark Fork River, Montana and implications for post-dam removal restoration,” (poster) *EOS Trans. AGU*, 90(52) Fall Meet. Suppl., Abstract EP21B-0593.
- Wilcox, A. C., D. Brinkerhoff, **C. Woelfle-Erskine**. 2008. “Initial geomorphic responses to removal of Milltown Dam, Clark Fork River, Montana, USA.” *EOS Trans. AGU*. 89(53) Fall Meet. Suppl. Abstract H41I-07.
- Woelfle-Erskine, C.** 2008. “Historical analysis of reference conditions and channel evolution near Milltown Dam, Clark Fork River, Montana, USA.” University of Montana Conference of Undergraduate Research, April 4, 2008.

## INVITED TALKS, PANELS, AND WORKSHOPS

University of California, Berkeley, Department of Environmental Sciences, Policy, and Management Seminar, September 29, 2022.

“Queer Geographies”, Association of American Geographers annual meeting, Denver, CO, March 27, 2023.

“Climate Science and Environmental Justice Research, Praxis and Methodologies,” Association of American Geographers annual meeting, Denver, CO, March 27, 2023.

Cal Poly Humboldt, Department of Geography Seminar, “Monitoring from below: Community-directed science and health inequities”. Society for the Social Studies of Science Annual Meeting, Cholula, MX, December 6 2022.

Princeton University, Environmental Humanities Colloquium, October 4, 2022.

University of California, Berkeley, Department of Environmental Sciences, Policy, and Management Seminar, September 29, 2022.

Oregon State University, Geography, Environmental Sciences, and Marine Resource Management Research Discipline Group Seminar, “Underflows: Queer Trans Ecologies and River Justice”, May 2, 2022.

Western Washington University, Queer Futures Seminar, Women, Gender, and Sexuality Studies Program and LGBTQ+ organization. “Underflows: Transforming River Sciences”, November 22, 2021.

UC Santa Barbara, School of Environmental Science and Management Bren Seminar, November 29, 2021. “Centering Karuk Knowledge in Klamath Floodplain Reconnection: Pêeshkeesh Yàv Umusaheesh”.

New York University, Environmental Studies Department Colloquium, “Justice on Urban Waterfronts: Anti-racist and queer approaches to unsettling.” New York, NY October 24, 2020 (virtual due to covid-19).

University of Washington College of the Environment Invited Workshop “Developing Capacity through Collaborative Action”, workshop co-organizer, Queer Ecologies: Solidarity, Science, Politics (with Eli Wheat, UW Program on the Environment).

University of Wisconsin, Madison. Featured Guest and Respondent, Environmental Justice in Multispecies Worlds: Land, Water, Food. Madison, WI, March 8 2020.

SESYNC Working Group member, “Advancing Integrated Process-Based Modeling of Complex Socio-Environmental Systems.” 2019-2020.

Society for the Social Study of Sciences annual meeting, New Orleans, LA, September 6, 2019. Respondent, Methods of Engagement: Feminist approaches to collaboration in studying beyond the human.

ComSciCon Pacific Northwest 2019 graduate student conference, University of Washington, Seattle, April 12, 2019,. Panelist, “Advocacy and Diversity”, <https://comscicon.com/comscicon-pnw-2019-invited-speakers>

Society for Cinema and Media Studies conference, Seattle, WA, March 14, 2019. Respondent, “Water Worlds” panel.

UW Seattle Anthropocene Research Cluster Work-In-Progress talk, January 10, 2018. “Cruising Anthropocene Futures: Duwamish River Cleanup and More-Than-Human Politics”.

UC Berkeley Social Science Matrix Colloquium, November 30, 2018. “With and For the Multitude: Cruising a waterfront with José Esteban Muñoz.”

UW Seattle Department of Geography Colloquium, November 16, 2018. “Thinking With Salmon About Drought: Local knowledge, more-than-human commons, and hypertheic imaginaries”

Salish Sea Ecosystem Conference, Seattle, WA, April 6 2019, Panelist, “Coastal Almanac: Marine Science Beyond the Ivory Tower”.

UC San Diego Department of Anthropology Colloquium. April 16, 2018. “Queer Politics for Field Ecologists.”

UW Seattle Program on the Environment Rabinowitz Lecture. January 9, 2018. “Extinction’s Affects.”

UC Santa Cruz Feminist Studies Department Colloquium. December 1, 2016. “Queer x Trans x Feminist Ecology: Towards a field science practice.”

UC Santa Cruz Science and Justice Research Center Lecture. February 1, 2016. “Fish Culture”

National Marine Fisheries Service, Santa Rosa. Flow Enhancement for Salmon workshop, September 28, 2016. Invited speaker, “Water quality controls on salmonid survival during drought”.

California Studies Conference – Parched: Dry Times in the Golden State, University of San Francisco, San Francisco, CA. Panelist on “Is California drying up? Policy interventions, past, present, and future”, October 24, 2015.

California Academy of Sciences, San Francisco, CA. Coastal NightLife, September 24, 2015.

UC Berkeley Department of Geography Colloquium. “Salmon and People in Drying Streams: Tracing Flow Through Multispecies Communities Along a California Coastal Stream”. Berkeley, CA, September 9 2015.

UC Berkeley annual Ph.D. / Postdoc Colloquium, Panelist on collaborative research: “Let’s Do Something Together!” Berkeley, CA, September 1, 2015.

Joseph A. Myers Center for Research on Native American Issues workshop co-convenor, “Unusual Resource Use and Deviant Citizens”, University of California, Berkeley, May 5 2014.

University of Arizona / Marine Biological Laboratory workshop participant, “History of Sustainability Science”, Woods Hole, MA, May 11-16 2013.

UC Berkeley College of Environmental Design Colloquium, “Household scale greywater and rainwater harvesting: Politics and Practice.” Berkeley, CA, November 2, 2012.

Colorado School of Mines Humanitarian Engineering Program, Golden, CO, April 3, 2008.

Public Officials for Water and Environmental Responsibility. Los Angeles, CA, Panelist. May 1, 2005

## **CONFERENCE PANELS ORGANIZED**

Association of American Geographers annual meeting, Denver, CO March 2023. “Queer/trans ecologies: methodological considerations for critical geographical research”

American Studies Association annual meeting, Honolulu, Hawaii, November 7, 2019, panel co-organizer, “Queer Affiliations: Cross-Species and Trans-Scalar Ecologies”

Dimensions of Political Ecology conference, Lexington, KY, February 22, 2019, panel co-organizer (with PhD advisee Robert Anderson), “Critical and Imaginative Restoration Ecologies”.

Society for Literature, Science, and the Arts conference, Atlanta, GA, November 4, 2016, panel co-organizer, “Nonhuman Relational Creativity: Crafting Queer Kin and New Kinds”.

Institute for Advances Study in Science, Technology, and Society conference, Graz, Austria, May 14 2016. Panel co-organizer, “Who Will Queer STS?”

Undisciplined Environments conference, ENTITLE Political Ecology Network, Stockholm, Sweden, March 4 2016. Panel co-organizer, “Who Will Queer Political Ecology?”

Society for the Social Studies of Science conference, Denver, CO, November 12, 2015, panel co-organizer, “Informational ecosystems and ecosystem informatics: contesting secure futures”.

California Chapter Meeting of the Society for Freshwater Science, Davis, CA. Panel organizer, “Juvenile salmonids in intermittent streams”, October 21, 2015.

Dimensions of Political Ecology conference, Lexington, KY, April 1, 2014, panel co-organizer, “Latent Destiny, Manifest Reversal.”

## **PUBLIC SCHOLARSHIP**

- Puget Creek BioBlitz, May 22 2021. Community event engaging community members in plant and animal identification and watershed exploration.
- On A.I.R, Queer Ecologies. Podcast produced by CENTRUM, Port Townsend, WA.
- Wisconsin Public Radio, Panelist on Heal (Humanities Education for Anti-racism Literacy in the Sciences and Medicine, (Virtual due to COVID-19), October 28, 2021.
- “How imaginaries shift in places: Native and settler politics of water and salmon”, *Undisciplined Environments*. April 9, 2021.
- UC Berkeley annual Ph.D. / Postdoc Colloquium, Panelist on collaborative research: “Let's Do Something Together!” Berkeley, CA, September 1, 2015.

## **ARTS AND DIGITAL WORK**

2021. Coyote's Journey: A Karuk Story of Theft and Return on the Klamath River, as told by Lisa Morehead-Hillman and Leaf Hillman. Co-produced (with Karuk cultural practitioners, youth, and UW graduate students) a multi-media exploration of pasts and futures at T'ishanik, a Karuk ceremonial and village site impacted by mining and fire suppression.  
<https://storymaps.arcgis.com/stories/b0dae55d3c8a44f1a39b91de5d55867b>
2020. “Apparatus / Detritus”. CENTRUM, Port Townsend, WA. Interactive text and photography installation exploring Duwamish River queer ecologies (postponed due to covid-19). Produced during a Northwest Heritage Residency at CENTRUM.
2017. *The Gold Fish Casino* film, 33 minutes, dir. Sarolta Jane Vay. I co-produced and performed in the film adaptation of July Hazard's play.
2015. “Tell a Salmon Your Troubles”. I co-developed and performed in an interactive performance at Glitter Bomb, SomARTS Gallery, San Francisco.
2014. “Tuolumne”, performance at the Bay-Delta Science Conference artist panel, Sacramento, CA.
2012. *The Gold Fish, Or, Straight Flushes For the Manifestly Destined*, one-act musical on salmon migration, written by July Hazard. I co-produced and performed at the Crocker Museum, Wild and Scenic Film Festival Dam Removal Showcase, and CounterPULSE.
2011. “Between Storms”, Text and photography exploring California water infrastructure and vulnerabilities. In N. Antebi and E. Baxter-Blader, eds. *Water, CA*. [online catalog for museum exhibition]. [www.waterca.org](http://www.waterca.org).
2011. Hydro Laboratory, collaborative science installation and performance, Tenderloin National Forest, June 2011. URL: <https://waterunderground.wordpress.com/the-water-underground/hydrolaboratory/>

## **Teaching**

- Practicum in Community-engaged Research, UW Seattle, 2022, 2023, School of Marine and Environmental Affairs methods course.
- Practicum in Writing on the Environment, UW Seattle, 2019, 2023, School of Marine and Environmental Affairs, UW Seattle graduate course.
- Ecocultural Worlds: Black, Queer, and Indigenous Approaches, UW Seattle School of Marine and Environmental Affairs graduate seminar, 2021.

Decision Making and Action Taking in Marine and Environmental Affairs, UW Seattle, 2020, School of Marine and Environmental Affairs core course.

Ecocultural Restoration and Salmon Science in the Klamath Basin, UW Seattle, 2019. School of Marine and Environmental Affairs and Program on the Environment graduate / undergraduate field course, in collaboration with the Karuk Tribe's Píkyav Institute.

Critical and Imaginative Restoration Ecologies, UW Seattle, 2018, 2019, 2022. School of Marine and Environmental Affairs and Comparative History of Ideas graduate / undergraduate seminar.

Ecopoetics Along Shorelines, UW Seattle, 2018, 2019. School of Marine and Environmental Affairs, Honors, and Comparative History of Ideas cross-listed field course.

Interdisciplinary Environmental Assessment, UW Seattle, 2018, 2019. School of Marine and Environmental Affairs core course.

Investigatory pragmatics and poetics enacting sci-fi. Environmental Science, Policy, and Management DECal course, UC Berkeley, 2012.

From Dams to Graywater: California Water Transitions, Environmental Science, Merritt College, 2004.

### **Postdoctoral Assistant Instructor**

Science and the Body, Feminist Studies, UC Santa Cruz, 2017.

### **Graduate Student Instructor**

Bioethics and Society, Environmental Science, Policy, and Management, UC Berkeley, 2014.

Resources and Environmental Policy, Environmental Sciences, Policy, and Management, UC Berkeley, 2011.

Master's Research Seminar, Energy and Resources Group, UC Berkeley, 2013.

### **Guest Lecturer**

The Theory and Practice of Linking Knowledge with Action to Address Modern Environmental Challenges, NW CASC Research Fellows seminar, 2023.

Society and the Oceans, Program on the Environment, UW Seattle, 2022.

Principles of Sustainability, School of Environment and Forest Sciences, UW Seattle, 2020.

Environmental Studies Research Methods, Program on the Environment, UW Seattle, 2018

Ecology and Society, Energy and Resources Group, UC Berkeley, 2014.

Leadership, Conflict Resolution, and Community Development", Masters of Development Practice, UC Berkeley, 2015.

California Water, Energy and Resources Group, UC Berkeley, 2015.

Climate Change: The politics of food, water, and energy, International Honors Program, 2015.

### **K-12**

Science Instructor, Oakland high school classrooms, East Bay Academy for Young Scientists, Lawrence Hall of Science, UC Berkeley, 2009-10.

Environmental Science Instructor, MetWest High School, Oakland, CA, 2005-06

## **ADVISING ASSIGNMENTS**

### **School of Marine and Environmental Affairs, UW Seattle**

#### Postdoctoral and post-masters researchers supervised

Kimberly Yazzie, PhD

Daniel Sarna-Wojcicki, PhD

Jocine Velasco, MLA

Ry Yahn, MLA

#### PhD committees co-chaired

Sofi Courtney, School of Environmental and Forest Sciences, pre-candidacy, UW Seattle, co-chair.

Robin Ruhm, Civil and Environmental Engineering, pre-candidacy, UW Seattle, co-chair.

#### PhD committee assignments

Michael Tillotson, SAFS, 2018 *At the intersection of fisheries and climate change: Emergent challenges for Pacific salmon management in a warming world*

Lauren Drakopoulos, Geography, 2019 *Eyes on the seas: A digital political ecology of fisheries monitoring programs*

Kimberly Yazzie, School of Aquatic and Fisheries Sciences, 2022 *A multiscale approach to characterize fish and habitat associations across the riverscape of a coastal watershed.*

Emma Lundberg, Nelson Institute for Environmental Science, U. Wisconsin-Madison, 2021. *Managing Freshwater Resources: a critical, interdisciplinary reimagining.*

Rob Anderson, Geography, 2022 *Producing wolves: the cultural politics of science in wolf conservation and management.*

Vern Harner, Public Health, 2022 *Knowledge Production and Sharing in Trans Communities*

Francine Buckner, Nursing, ABD *A Lesser Form of Truth – Chronic Pain, Risk Assessment, and the Biomedical Discourse*

#### Master of Marine Affairs Thesis advisees

Jenny Liou, candidate, 2023 *Centering Indigenous knowledge in stream and salmon recovery: the Quartz Valley Indian Community's struggle to return water to Shackelford Creek*

Sarah Montgomery, 2020, *Conserving an under-appreciated fish: Evaluating options for Eulachon science and management*

Cori Currier, 2019, *Spaces for people and salmon along restored urban shorelines: A critical reflective analysis*

Ashley Bagley, 2019, *Evaluating temperature buffering capacity of floodplain side channels to promote refugia for salmonids in the Stillaguamish River basin*

Alex Sweetzer, 2019, *Socioecological and societal impacts of the Elwha Dam Removal*

Alexandra Gustafson, 2018, *A visualization and analysis of the Salmon Creek Watershed for resource managers and community outreach.*

#### Master of Marine Affairs Capstone advisees

Susannah Maher, Debbie Rose, Ian Stanfield, 2020, “Climate adaptation, agricultural livelihoods, and salmon recovery in the Klamath Basin, CA”, collaboration with the Scott River Watershed Council.

James Lee, George Thomas, Jr., Samantha Klein, 2021, “Evaluating ecological effects and policy context for floating wetlands as part of Superfund recovery process on the Duwamish River, Seattle, WA”

Gabriela Dunn, Hannah King, Maddison Hicks, 2023, “Karuk Tribe Sahpihnüich (Beaver) Research and Recovery”

Amelia Wells, Kellie Cutsinger, 2023, “NNA Planning: Community-based Mitigation and Adaptive Strategies for River Flooding and Erosion in Alaska Native Communities”

#### Master of Marine Affairs courses focused track advisees

Zoe Van Duivenbode, 2019

Grace Morris, 2021

#### Program on Climate Change capstone advisees

Zoe Van Duivenbode, 2019, *Co-creating Climate Change Education Materials with Immigrant and Refugee Communities in King County, WA*

Ian Stanfield, 2020, *Incorporating climate science and adaptation planning into rancher outreach in the Scott Valley, Klamath Basin, CA*

Susannah Maher, 2020 *Communicating and Collaborating Across Difference*

James Lee, 2021, *Communicating the benefits of Novel Restoration Techniques to Promote Climate Change Literacy and Action.*

#### **UC Berkeley**

Daisy Gonzales, 2016, Environment and Society undergraduate capstone, *Historical analysis of residential water use in the Salmon Creek watershed.*

## **POLICY AND MANAGEMENT WORKING GROUPS SERVED ON**

NW CASC Stream Permanence Deep Dive, October 5-7 2021. Served on organizing committee and participated in virtual workshop. Produced three reports:

<https://nwcasc.uw.edu/resources/actionable-science-deep-dives/stream-permanence-deep-dive/>

NCAR PI Symposium, Catalyzing Innovation through Convergent Research, July 26-28 2021. Generated ideas for NSF program officers and NCAR leaders on strengthening social science and participatory methodologies in convergence research funding and planning.

## **AWARDS AND GRANTS RECEIVED BY STUDENTS AND POSTDOCS**

- 2021** Robin Ruhm, Future Rivers NRT, National Science Foundation
- 2021** Casey Duncan, Future Rivers NRT, National Science Foundation
- 2021** Kimberly Yazzie, Postdoctoral Fellowship (Biology), National Science Foundation
- 2021** Robin Ruhm, Graduate Research Fellowship, National Science Foundation
- 2021** Jocine Velasco, University of Washington Nominee, Landscape Architecture Foundation Olmstead Scholar
- 2021** Sofi Courtney, Honorable Mention, Graduate Research Fellowship, National Science Foundation.
- 2020** Sofi Courtney, Future Rivers NRT, National Science Foundation
- 2020** Kimberly Yazzie, Ford Foundation Dissertation Fellowship
- 2019** Ashley Bagley, Washington Sea Grant State Fellowship
- 2019** Sonni Tadlock, Washington Sea Grant State Fellowship
- 2019** Alex Sweetzer, Washington Sea Grant State Fellowship
- 2018** Ashley Bagley, Best Graduate Student Poster, Society for Ecological Restoration Northwest Regional Conference.

## **ADDITIONAL PROFESSIONAL EXPERIENCE**

Editorial Assistant, **Environmental Justice Coalition for Water**, Oakland, CA, 2005  
Coauthored and edited the report *Thirsty for Justice: A People's Blueprint for California Water*

Heron's Head Park Naturalist, **Literacy for Environmental Justice**, San Francisco, CA, 2002-03  
Lead research, restoration and environmental education programs for 2,000 youth and 600 adults.  
Mentored interns from CCSF's Center for Habitat.

Restoration Crew Leader, **Living Structures, Inc.**, Santa Fe, NM, 1997-99. Performed restoration tasks including stream bioengineering, water retention, and planting. Bid jobs, supervised a crew of 8, and trained workers in dryland restoration techniques.

## **PROFESSIONAL AFFILIATIONS**

American Geophysical Union  
Ecological Society of America  
American Association of Geographers  
National Women's Studies Association  
Society for the Social Studies of Science  
Society for Ecological Restoration  
Society for Cinema and Media Studies  
Society for Applied Anthropology  
American Studies Association

## **UNIVERSITY PROFESSIONAL SERVICE**

Member, Quaternary Research Center, University of Washington, Seattle. 2020-present.  
Capstone Coordinator, SMEA, 2021-2023  
Chair, SMEA Diversity Committee, 2020  
Chair, SMEA Curriculum Committee, 2019  
Co-Founder\*, Diversity Forum, (\*with SMEA MMA students Brigitte Harding and Sallie Lau), 2019  
Member, Search Committee, SMEA Assistant Professor of Regional Policy and Management, 2019  
Member, Search Committee, SMEA Associate Professor of US Fisheries Management, 2019  
Steering Committee, Doris Duke Conservation Scholars Program, 2019.  
Member, Search Committee, SMEA-American Indian Studies joint search, 2018-19  
Departmental delegate, Diversity Committee, UW Seattle College of the Environment, 2017-18  
Departmental delegate, Scholarship Committee, UW Seattle College of the Environment, 2018-19.  
Member, Search Committee, SMEA-AIS joint hire in Arctic Indigenous Health, 2018.  
Member, Admissions Committee, School of Marine and Environmental Affairs, UW Seattle.  
Co-founder, Watershed Governance Graduate Student Conversation Group, UC Berkeley  
Co-founder, Terrestrial Laser Scanning Association, UC Berkeley  
Member, Admissions Committee, Energy and Resources Group, UC Berkeley  
Member, Space Committee, Energy and Resources Group, UC Berkeley  
Student liaison, Energy and Resources Group faculty search for Assistant Professor in Environmental Economics, 2013

## **SERVICE TO THE DISCIPLINES**

### **Grant Reviewer**

NSF Panel reviewer, 2019, 2020  
SSHRC External reviewer, 2020

## **Reviewer for Journals**

American Quarterly  
Coastal Management  
Environmental Development  
Environmental Politics  
Ethnos  
Hypatia  
Local Environment  
International Journal of the Commons  
Water

## **LANGUAGES**

English: native speaker  
Spanish: advanced conversation, reading and writing proficiency  
German: basic conversation, reading, and writing  
Salish (Southern Lushootseed): beginner

## **REFERENCES**

Kim TallBear, Professor, University of Alberta Native Studies  
[tallbear@ualberta.ca](mailto:tallbear@ualberta.ca)

Karen Barad, Professor, UC Santa Cruz Feminist Studies, [barad@ucsc.edu](mailto:barad@ucsc.edu)

Rebecca Lave, Professor, Geography, University of Indiana, [rlave@indiana.edu](mailto:rlave@indiana.edu)

Stephanie Carlson, Professor, Environmental Science, Policy, and Management, University of California, Berkeley