

Kristi Straus

Program on the Environment

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Education

Doctor of Philosophy. Aquatic and Fishery Sciences. University of Washington, Seattle. 2010

- *Shellfish aquaculture and conservation of two Puget Sound molluscs: the pinto abalone (*Haliotis kamtschatkana kamtschatkana*) and the Pacific geoduck (*Panopea generosa*).*
- Supervised by Dr. Carolyn Friedman.

Bachelor of Arts. Biology. Colby College. 1998.

- Magna Cum Laude

Employment History

2020-present	Associate Teaching Professor , Program on the Environment, University of Washington
2018-present	Associate Director , Program on the Environment, University of Washington
2018-2019; 2024	Acting Director , Program on the Environment, University of Washington
2018-2018	Assistant Director , Program on the Environment, University of Washington
2012-2020	Part-Time Lecturer , Program on the Environment, University of Washington
2012-2016	Research Scientist , Department of BioEngineering, University of Washington
2014-2017	Instructor , Seattle MESA, University of Washington
2011-2012	Postdoctoral Teaching Fellow , Program on the Environment, University of Washington

Honors

- New Student Convocation Speaker; University of Washington. 2018.
- Distinguished Teaching Award; University of Washington. 2017.
- Green Award; University of Washington. 2017.
- Nominee, Outstanding Commitment to Diversity Award; College of the Environment, University of Washington. 2015 and 2016.
- Teaching Technology Fellowship; University of Washington. 2014.

University of Washington Courses Taught

- C Env 555: Teaching Right: Best Practice Pedagogy in Environment Courses
- ENVIR 100: Introduction to Environmental Studies
- ENVIR 101: Orientation to Environmental Studies
- ENVIR 239: Sustainability: Personal Choices, Broad Impacts
- ENVIR 250/301: Research Methods in Environmental Studies
- ENVIR 300/401: Analysis of Environmental Cases
- ENVIR 460: Power, Privilege, and Preservation
- ENVIR 495: Thirst for Solutions: Water in the 21st Century
- ENVIR 495: Trash: Environmental and Social Justice Impacts of Waste
- BIOL/FSH/OCEAN 250: Marine Biology

University of Washington Committees and other service

- Member, College of the Environment Teaching Support Team. Spring 2020-present

- College of the Environment Strategic Planning
 - Member, College of the Environment Strategic Planning Committee. Autumn 2022-Spring 2023
 - Member, College of the Environment Strategic Plan Steering Committee. Winter 2024-present
- Curriculum Committees
 - Program on the Environment
 - Chair, 2018-present.
 - College of the Environment
 - Member, Autumn 2017-present
 - Chair, Autumn 2018-Spring 2020
 - School of Marine and Environmental Affairs
 - Member, Autumn 2022-Spring 2023
- Diversity Committees
 - Member, School of Marine and Environmental Affairs, Autumn 2023-present
 - Member, College of the Environment, Autumn 2014-Spring 2017
- PoE Director Search Committees
 - Member, 2024
 - Member, 2018
 - Member, 2016
- Faculty Hiring Committees
 - Member, Center for Quantitative Science Assistant Teaching Professor. Spring 2023-Winter 2024.
 - Member, PoE Part-time Lecturer (competitive recruitment). Summer 2023-Autumn 2024
- Program on the Environment Staff Hiring Committees
 - Counseling Services Coordinator Winter-Spring 2022
 - Academic Program Specialist Summer-Autumn 2023
 - Counseling Services Coordinator Winter-Spring 2024
- Faculty Senator representing the School of Aquatic and Fishery Sciences and the School of Marine and Environmental Affairs. Faculty Senate. Autumn 2021-Spring 2023.
- Earth Lab Innovation Grants Review Committee
 - Chair: 2022, 2023, 2024
 - Member: 2020, 2021
- Evidence-Based Teaching Program. Office of the Provost.
 - Lead, 2017-2018
 - Coach, 2016-2017
- Chair, College of the Environment Online Education Ad-Hoc Advisory Committee. 2017-2018
- Member, Review Committee for Husky 100. 2016, 2017
- Member, Review Committee for Doris Duke Conservation Scholars Program. 2016, 2017
- Reviewer for pinto abalone proposals under the National Marine Fisheries Service FY15. Endangered Species Act Species Recovery Grants to Tribes Program 2014

Bibliography of Publications

Schnee, I., **Straus, K.**, Guzman, J.M., & Gavreau, A. (2023). Random Discussion Leader in the Philosophy Classroom. *Teaching Philosophy*. 46(4): 531-557. [info:doi/10.5840/teachphil2023822188](https://doi.org/10.5840/teachphil2023822188)

Straus, K.M. Climate Justice. 2023. *EBSCO Pathways to Research in Sustainability*.
<https://www.pathways2research.com/pts/Climate%20Justice>.

- Chudler, E.H., **Straus, K.M.**, Orlina, E.C., and Smith, V.S. 2018. Sowing the seeds of neuroscience middle school curriculum program: Learning about the nervous system using medicinal plants. *Journal of STEM Education*. 1(1): 1-12.
- Straus, K.M.** and Chudler, E. H. 2016. Online teaching resources about medicinal plants and ethnobotany. *CBE-Life Sciences Education*. 15(4). 1-8.
- Straus, K.M.** and Chudler, E. H. 2015. Botanical heart throbs: Heart rate in blackworms. *Science Scope* 39(1): 26-31.
- Chudler, E.H., **Straus, K.M.**, and Collins, L. 2015. Bloomin' Brains: A summer neuroscience camp for middle school students. *Neuroscience Abstracts*. Program no. 22.12, 2015.
- Straus, K.M.**, Vadopalas, B., Davis, J.P. Friedman, C.S. 2015. Reduced genetic variation and decreased effective number of breeders in five year classes of cultured geoduck clams (*Panopea generosa*). *Journal of Shellfish Research* 34(1): 163-169.
- Chudler, E.H., **Straus, K.M.**, and Collins, L. 2014. Sowing the seeds of neuroscience: a new curriculum for middle school students. *Neuroscience Abstracts*. Program No. 22.02, 2014.
- Bouma, J.V., Rothaus, D., **Straus, K.M.**, Vadopalas, B., and Friedman, C.S. 2012. Low juvenile pinto abalone (*Haliotis kamtschatkana kamtschatkana*) abundance in the San Juan Archipelago, Washington State. *Transactions of the American Fisheries Society* 141(1): 76-83.
- Straus, K.M.** and Friedman, C.S. 2009. Restoration aquaculture of the pinto abalone (*Haliotis kamtschatkana kamtschatkana* Jonas): impacts of rearing method on behaviour, growth, and survivorship in the hatchery. *Marine and Freshwater Research* 60: 1021-1028.
- Straus, K.M.**, Crosson, L.M. and Vadopalas, B. 2008. Effects of geoduck aquaculture on the environment: A synthesis of current knowledge. Washington Sea Grant Technical Report WSG-TR-0801, Seattle, 64pp.

Invited Presentations

- Dolliver, J., Essington, T., Guzman, J., Huybers, K., Naish, K., Nuwer, M., Parrish, J., and **Straus, K.** *An environment for learning: Leveraging instructional expertise to support remote teaching*. Advances in Higher Education Research Seminar. May 17, 2021.
- McDonald, P.S., **Straus, K.M.**, and Wheat, E. *Virtual Visit Day highlighting Environmental Studies for prospective students in the College of the Environment*. August 18, 2020.
- Straus, K.M.** National Association for College Admissions Counseling (NACAC) Virtual College Fair. September 13, 2020.
- Straus, K.M.** *Evidence Based Practices for Student Learning and Engagement*. Teaching Technology Fellows Institute. July 2020.

- Straus, K.M.** *Meaningful Sustainability Education through Experiential Learning, Service Learning, and Collaborative Online International Learning*. Washington Oregon Higher Education Sustainability Conference. March 3, 2020.
- Straus, K.M.** *Evidence Based Practices for Student Learning and Engagement*. Teaching Technology Fellows Institute. July 09, 2019.
- Straus, K.M.,** Zuo, W. and Wheat, E. *Global Flipped classroom: Successes and Challenges of Combining Collaborative Online International Learning with Study Abroad*. Advances in Higher Education Research Seminar. February 26, 2019.
- Straus, K.M.** *From Bench Science to the Science of Science Education*. Friday Harbor Labs Seminar Series. University of Washington. October 24, 2018.
- Straus, K.M.** [*Awesome Opportunities for Learning at UW*](#). New Student Convocation. University of Washington. September 23, 2018. (minutes 0:53 to 10:05)
- Straus, K.M. and Schnee, I.** *Evidence-Based Best Practices for Student Learning and Engagement*. Faculty Fellows. University of Washington. September 06, 2018.
- Straus, K.M.** *Evidence Based Best Practices for Student Learning and Engagement both Face to Face and Online*. Teaching Technology Fellows Institute. University of Washington. July 12, 2018.
- Straus, K.M.** *Teaching Sustainability: Immersive Learning in Two Locations*. College of the Environment Advisory Board. University of Washington. May 17, 2018.
- Straus, K.M.** [*Sustainable Happiness*](#). TedX Talks University of Washington. May 5, 2018.
- Straus, K.M.** *Teaching Sustainability: Personal Choices, Broad Impacts*. Labs Unlocked. College of the Environment. University of Washington November 7, 2017.
- Straus, K.M.** *What is Sustainability?* Future Student Visit Day for the College of the Environment. University of Washington, July 22, 2016.
- Straus, K.M.** *Everyday Sustainability*. New Day Northwest Television Broadcast. Interviewed by Margaret Larsen. June 14, 2016.
- Foshee, R., Nuwer, M., and **Straus, K.M.** *The Many Uses of Clickers: Fully Leveraging Clickers for Active Learning*. "In Practice" Workshop Series sponsored by the Center for Teaching and Learning and UW-IT Learning Technologies. University of Washington, March 3, 2016.
- Straus, K.M.,** Horner-Devine, A., Nuwer, M., Stoll, S., and Essington, T. *Wag the Dog; Can Technology Set Us Free in the Classroom?* Panel, Meet, Greet, Teach: An Informal Conversation about Interdisciplinary Teaching on Environmental Issues, University of Washington, May 27, 2015
- Straus, K.M.,** Snider, K., Craig, C., and Kalikoff, B. *Research-based Innovations in Teaching and Learning at the University of Washington*. Panel, Board of Regents, University of Washington, February 12, 2015.

Straus, K.M., Vadopalas, B., Davis, J., and Friedman, C.S. *Microsatellite parentage analysis of reproductive success and genetic diversity in cultured geoduck, Panopea generosa*. Washington Sea Grant Geoduck Research Symposium. Union, WA. March 6, 2012

Straus, K.M., Vidakovic, M., Ashcraft, J., and Achterman, P. *Teaching at the UW: What you can look forward to*. Plenary session panel at the 6th Annual TA conference on Teaching and Learning at the University of Washington; Seattle, Washington. 2008.

Selected Presentations

Alzaroo, L., Billo, T., McDonald, P.S., **Straus, K.**, Weng, Y., and Wheat, E. *Beyond the Classroom: The power of experiential learning and immersive experiences in sustainability workforce development*. National Sustainability Society National Conference. September 11, 2025.

Billo, T., McDonald, P.S., **Straus K.**, Weng, Y., and Wheat E. *Immersive learning to better know home and understand global issues*. Washington Oregon Higher Education Sustainability Conference. March 6, 2024.

Swartley, L., **Straus, K.**, Abdi, N*, Barreto, J*, Strzelec, F*. Seeing Environmental Studies as lived, together – on cross-departmental, student-centered co-construction of a research-learning model. Association for Environmental Studies and Sciences/Association for the Study of Literature and Environment joint conference. July 12, 2023.

Swartley, L., **Straus, K.**, Abdi, N*, Barreto, J*, and Lawler, D*. *Interpreting lived experiences and needs in multimodal learning*. University of Washington Teaching and Learning Symposium. April 2023.

Ganti, A., Love, C., Pursch Cornforth, K., **Straus K.**, and Wheat E. *Community Engaged Learning Across Disciplines: Facilitating student leadership towards equitable, regenerative economies*. Washington Oregon Higher Education Sustainability Conference March 3. 2022.

Gauvreau, A.N., **Straus, K.M.**, Schnee, I., and Guzman, J. *Supporting Meaningful Discussions Through Random Discussion Leader*. University of Washington Teaching and Learning Symposium. April 2019.

Straus, K.M. and Zuo, W. *The Global Flipped Classroom: Collaborative Online Learning (COIL) and Study Abroad*. University of Washington Teaching and Learning Symposium. April 2018.

Weng, Y.C. and **Straus, K.M.** *ENVIR 100 Online and Traditional Lectures: Comparing Final grades and Course Evaluations*. University of Washington Teaching and Learning Symposium. April 2018.

Straus K.M. *Do experiential learning and reflective writing improve students' sustainability knowledge, behaviors, and attitudes?* Association for the Advancement of Sustainability in Higher Education; Baltimore, MD. October 2016.

Chudler, E.H., **Straus, K.M.**, Trygstad, J. and Collins, L.J. *Sowing the Seeds of Neuroscience*. NIH Science Education Annual Meeting; Bethesda, MD. May 2016.

- Straus, K.M.** *Random Discussion Leader (RDL) to Improve Discussion and Student Learning*. University of Washington Teaching and Learning Symposium. April 2015.
- Chudler, E.H., **Straus, K.M.**, Witter-Johnson, M. and Collins, L.J. *Sowing the Seeds of Neuroscience*. NIH Science Education Annual Meeting; Bethesda, MD. May 2014.
- Chudler, E.H., **Straus, K.M.**, Witter-Johnson, M., Taylor, S.N., Allpress, L., Venkataraman, P., and Bergsman, K. *Sowing the Seeds of Neuroscience*. NIH Science Education Annual Meeting; Omaha, NB. May 2013.
- Straus, K.M.**, Bouma, J.V., Rothaus, D.P., Davis, J.P., VanBlaricom, G., Stevic, B., Peabody, B., Vadopalas, B., and Friedman, C.S. *Approaches to pinto abalone (*Haliotis kamtschatkana kamtschatkana*) restoration*. National Shellfisheries Association Conference; San Diego, CA. 2010.
- Straus, K.M.**, Vadopalas, B., Davis, J.P., and Friedman, C.S. *Past, present, and future variation in cultured and wild geoduck clams*. National Shellfisheries Association Conference; San Diego, CA. 2010.
- Straus, K.M.**, Vadopalas, B., Davis, J.P., and Friedman, C.S. *Genetic diversity among cultured geoduck (*Panopea abrupta*) and implications for wild conspecifics*. National Shellfisheries Association Conference; Providence, RI. 2008.
- Straus, K.M.**, Naish, K.A., Swanson, W.J., and Friedman, C.S. *Which abalone is it? Morphology indicates one species and genetics another: Abalone in Washington State*. National Shellfisheries Association Conference; San Antonio, TX. 2007.
- Wight, N.A., Vadopalas, B., **Straus, K.M.**, and Friedman, C.S. *Detection and quantification of “*Candidatus xenohaliotis californiensis*” (RLP), the causative agent of withering syndrome in abalone using quantitative PCR (QPCR)*. National Shellfisheries Association Conference; San Antonio, TX. 2007.
- Vadopalas, B., Ma, C., Wight, N.A., Davis, J.P., **Straus, K.M.**, and Friedman, C.S. *Avoiding genetic effects of geoduck clam (*Panopea abrupta*) aquaculture on wild stocks: Moving towards sustainability*. National Shellfisheries Association Conference; San Antonio, TX. 2007.
- Straus, K.M.**, Naish, K.A., Rothaus, D.P., Swanson, W.J., and Friedman, C.S. *Evidence for a cryptic form of abalone in Washington State*. Puget Sound Georgia Basin Ecosystem Conference. Vancouver, British Columbia, Canada. 2007.
- Straus, K.M.**, Naish, K.A., and Friedman, C.S. *Population structure of the pinto abalone (*Haliotis kamtschatkana*) in Washington State*. National Shellfisheries Association Conference; Monterey, CA. 2006 and Northern Abalone Recovery Implementation Group Meeting, Nanaimo, British Columbia, Canada. 2006.
- Straus, K.M.**, Davis, J.P., Naish, K.A., and Friedman, C.S. *Restoration aquaculture of the pinto abalone (*Haliotis kamtschatkana*)*. National Shellfisheries Association Conference; Philadelphia, PA. 2005 and Puget Sound Georgia Basin Ecosystem Conference; Seattle, WA. 2005.

* denotes undergraduate student research colleague

Additional Professional Development

Game Day Teaching Program. University of Washington Athletics. September 30, 2016.

Evidenced Based Teaching Program. Center for Teaching and Learning and UW-IT. University of Washington. 2015-2016.

Undocumented Student Ally Training. College of the Environment, University of Washington. April 21, 2015.

Teaching Technology Fellows Summer Institute. Office of the Provost and Center for Teaching and Learning, University of Washington. June 16-20, 2014.

Process Oriented Guided Inquiry Learning (POGIL) Northwest Workshop. July 10-12, 2012

Faculty Learning Community on Service Learning. Center for Teaching and Learning. Spring 2012.

Large Class Collegium. University of Washington Center for Teaching and Learning September 21, 2011.

University of Washington Program on the Environment Capstone Students

Supervised

- Jason Kung. 2024. Heatwaves, social infrastructure, and climate justice.
- Isaac Olson. 2024. Wellbeing over waste: Engaging youth on addressing plastic pollution.
- Stephanie Schmidt-Pathman. 2024. Understanding motivating factors for student led sustainability projects.
- Brit Skolnik. 2024. Breaking the sound barrier: Promoting marine and environmental outreach across formal and informal settings.
- Lauren Church. 2023. Conserve to preserve: How cities and citizens can collaborate to protect water resources.
- Maysen Westling. 2023. Be a good sport, don't forget to sort: Best practices for waste diversion programs in sports stadiums.
- Isabelle Arensen. 2023. The individual advocate: Coping with climate grief and ways we can fight back.
- Jessica Day. 2023. Plastic pollution policy: How certain perspectives can play a large role.
- Risa Suho. 2023. Talking trash: Evaluating effectiveness of public outreach in solid waste.
- Lillian Williamson. 2023. Talking trash: Intersections between technology, waste management & the transition to a zero-waste economy.
- Mikaela Ebbeson. 2022. *Encouraging beachgoers to keep wildlife wild: Pinniped science communication.*
- Jasmine Chau. 2022. *Urban green spaces: Understanding Impacts and effectiveness on human health and well-being.*
- Vanessa Chung. 2021. *Increasing representation of BIPOC in sustainable shopping.*
- Beth Behnken. 2021. *Examining the impact of endangered black abalone on California stakeholders to inform future conservation efforts.*
- Gert-Jan van Doorn. 2020. *Technology in nature, who can benefit?*
- Kate Terrado. 2020. *Think global, act local: Escaped trash reduction.*
- Alice Zheng. 2020. *Processing acoustic data on beluga calves.*
- Lauren Neroutsos. 2020. *EPA Communications and resources to support sustainable materials management and tribal waste.*
- Melinda Skipworth. 2020. *Improving outreach methods to incorporate community voices.*
- Sam Warkentin. 2020. *Best practices in evaluating environmental grant proposals.*
- Kyler Jobe. 2019. *Compostable Diapers: Examining challenges, opportunities and barriers to widespread transformation of the diaper market.*
- Emily Busse. 2019. *Vitamin N(ature): Time spent outdoors improves student wellbeing and impacts environmental worldview.*
- Maddy Carr. 2019. *Greening business: Systematic ordering strategies for sustainable purchasing.*
- Jane Green. 2019. *Barriers to composting correctly: A case study of Seattle schools.*

- Jacob Huskey. 2019. *Birds, bags, and bioinspiration: What we do with what we know about nature.*
- Anneliese Smyth. 2019. *Improving sustainability efforts in universities across the United States: Developing better procurement practices.*
- Meghan Avila. 2018. *Nature-based therapy: Improving resiliency and mental health of children and teens with PTSD.*
- Mary Cappelletti. 2018. *Top-down vs. bottom-up climate action: Why it matters for organizations.*
- Emily Dangerfield. 2018. *Diversity and accessibility in urban farms: A closer look at the UW Farm.*
- Mikaela Steudel. 2018. *Environmentalists inspiration for involvement in climate advocacy.*
- Shunxi Liu. 2018. *Community engagement programs can align with the co-creation mission in higher education sustainability.*
- Tyler Ung. 2018. *Raising environmental awareness in a digitized world. The effectiveness of visual art and photography.*
- Alexandra Johnson. 2017. *Climate resiliency and different definitions of success: How Costa Rica is preparing for climate change.*
- Jocelina LaRue. 2017. *From blue to green: Going green with Blue C Sushi.*
- Matthew Liang. 2017. *Deforestation in Peru: The implications for wildlife and stakeholders.*
- Jenney Renee. 2017. *Education program for Pribilof Islands blue crab fishery.*
- Ben Stamey. 2017. *Farming filterers: How oyster farms can benefit the environment and the economy.*
- Caroline Suttie. 2017. *From the ground up: Identifying solutions to improve energy management in businesses.*
- Catherine Vachon. 2017. *Screens versus greens: Gardens to prevent internet addiction in adolescents.*
- Hannah Wright Osborn. 2017. *Breaking barriers: Young women of color in the great outdoors.*
- Jenna Duncan. 2017. *HTTP Error 404 – Forest not found: Does technology inhibit environmental awareness?*
- Tessa Yip. 2016. *Academia's failing grade: How to ace climate neutrality by reducing academics flying footprint.*
- Ian Anderson. 2016. *A comparative analysis of the efficacy and confidence of citizen scientists.*
- Kristin Smith. 2016. *Supporting autistic students in environmental education: Best practices for educators.*
- Akaisha Miller. 2016. *Repeat photography in citizen science projects.*
- Paige Morris. 2016. *Smart sustainability indicators for small communities.*
- Yvonne Chang. 2016. *Reducing food waste: Feeding our people, our planet, and our pockets.*
- Christie Fite. 2016. *Discovering incentive mechanisms to promote federal sustainability.*
- Mariko Kobayashi. 2016. *Creating more ocean acidification awareness; strategies for framing OA messages to a variety of audiences.*
- Barbara Steusloff. 2015. *Sustainability, Stillwaters, and citizen science.*
- Corissa Kellet. 2014. *Creating a stronger community through environmental education.*
- Marjorie Fleischman. 2014. *Effective promotion of hands-on environmental education practices.*
- Sam Deliso. 2014. *Restoring lowland stream and estuary habitat function in Kingston, Washington.*
- Bryanda Wippel. 2013. *Indirect climate change impacts on fish species in the California current.*
- Andrea Jackowski. 2013. *Monitoring restoration efforts in the Snoqualmie River Valley.*

Research projects, grants, contracts

N/A

Professional offices

N/A