



Jessica Hernandez, MMA, MS, Ph.D.

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EDUCATION

Ph.D.	School of Environmental and Forest Sciences, University of Washington	August 2020
M.M.A.	Marine and Environmental Affairs, University of Washington	June 2017
M.S.	School of Environmental and Forest Sciences, University of Washington	June 2017
B.S.	Marine Science, University of California, Berkeley	August 2013
B.A.	Italian Studies, University of California, Berkeley	August 2013

WORK EXPERIENCE

Adjunct Faculty, South Seattle College, Department of Environmental Sciences, School of Physical Sciences.	September 2022- Present
Postdoctoral Research Fellow, Division of Physical Sciences, University of Washington Bothell. National Science Foundation.	September 2020- May 2023
Postdoctoral Research Fellow, Center for One Health Research. Department of Environmental & Occupational Health Sciences. University of Washington.	February 2022- July 2022

POLICY COMMISSIONS & BOARDS

Pulling Together Committee -Waterfront Park of Seattle. City of Seattle's Office of the Waterfront and Civic Projects, Friends of Waterfront Seattle, and Seattle Parks and Recreation Advisory Committee.	2023-2024
Political Leadership Council (PLC), Sage Leaders. Washington State.	2023-present
Sustainability Research & Innovation (SRI) Congress Program Committee.	2023-present
Advisory Board. Climate Justice Policy Strategist. International Mayan League. Welcome with Dignity National Campaign Representative.	2021- present
Commissioner. City of Seattle's Urban Forestry Commission, Position #11: Environmental Justice Representative.	2021- present
Board Member. Sustainable Seattle. Founder and Manager of Indigenous-led Fund. Advisory Board for Community-Based Participatory Action Task Force.	2021- present



RESEARCH GRANTS & FELLOWSHIPS

Global Innovation Fund. University of Washington. <i>Land tenure, animal contact, and health in pastoralist Kenya: a community engaged One Health approach.</i> Award Amount: \$30,000.	2022
Alfred P. Sloan Foundation. <i>STEM Pathways for Underrepresented Students of the Yakima Valley.</i> Sloan G-2021-16996. Award Amount: \$249,990.00.	2021
National Science Foundation Graduate Research Fellowship, Award Amount: \$102,000	2017-2020
American Indian Science and Engineering Society (AISES), Lighting the Pathway to Faculty Careers for Natives in STEM	2020-2022
Puget Sound Sage's Community Leadership Institute (CLI)	2020-2021
Kavli Foundation Travel Grant. Award Amount: \$2,500	2019
Northwest Horticulture Scholarship. Award Amount: \$1,000	2019
Bullitt Foundation Grant. Award Amount: \$10,000	2018
Linda Maxson Endowment Marine Policy Award	2016
Latino/a Graduate Scholars Graduate Fellowship. Award Amount: \$5,000	2015
Charles Ramsden Research Grant, Earth and Planetary Science Department. Award Amount: \$10,000	2011-2013
Women in Science and Engineering Student Training and Research in Science Grant. Award Amount: \$20,000	2011-2013

ACADEMIC AND COMMUNITY AWARDS

Inclusive Pedagogy Award. School of STEM, University of Washington Bothell.	2022
Distinguished Literary Lion. King County Library System.	2022
College of the Environment: Outstanding Commitment Diversity	2017
Husky 100 via University of Washington	2017
Comcast NBCUniversal Leadership Award	2015
American Indian Science and Engineering Society Leadership Award	2011-2013
Native American Retention and Recruitment Center Certificate of Honoring	2011-2013
National Science Foundation Louis Stokes Alliance for Minority Participation in Science, Engineering and Mathematics	2009-2013
National Science Foundation CA Minority Alliance Conference, Special Recognition in Biological Sciences	2012-2013
Animo South L.A. Charter High School Valedictorian of the Founding Class '08	2008



PUBLICATIONS

PEER REVIEW-PUBLICATIONS

1. Mathis, C., Daane, A. R., Rodriguez, B., **Hernandez, J.**, & Huynh, T. (2023). How instructors can view knowledge to implement culturally relevant pedagogy. *Physical Review Physics Education Research*, 19(1), 010105.
2. **Hernandez, J.**, Skiba, J., German, M., Scherr, R., Huynh, T., Mathis, C., & Araya, M. (2022). Exploring Sociopolitical Landscapes in Physics Education. *Sustainability and Climate Change*, 15(4), 279-288.
3. **Hernandez, J.**, Meisner, J., Jacobs, L.A., Rabinowitz, P. (2022) Re-Centering Indigenous Knowledge in Climate Change Discourse. *PLOS Climate*. <https://doi.org/10.1371/journal.pclm.0000032>
4. **Hernandez, J.**, Meisner, J., Bardosh, K., Rabinowitz, P. (2022) Prevent Pandemics and Halt Climate Change? Strengthen Land Rights for Indigenous Peoples. *The Lancet Planetary Health*.
5. Huynh, T., Gray, K., Bauman, L., **Hernandez, J.**, Seeley, L., & Scherr, R. (2022, July 13-14). Physics teachers integrating social justice with science content. *Physics Education Research*.
6. German, M., **Hernandez, J.**, & Scherr R.E. (2022). Connecting the Science of Water to Students' Communities. *The Science Teacher*.
7. **Hernandez, J.**, Scherr, R., German, M., & Horowitz, R. (2022). Place-Based Education in High School Science: Situating Energy and Climate Change in Students' Communities. *Sustainability and Climate Change*, 15(1), 58-67.
8. **Hernandez, J.**, Scherr, R., & Robertson, A. D. (2021). Redefining Energy Justice in Physics Classrooms. *Environmental Justice*. <https://doi.org/10.1089/env.2021.0042>
9. **Hernandez, J.**, and Vogt, K.A. (2020) Indigenizing Restoration: Indigenous Lands before Urban Parks. *Human Biology*. 92.1: 37-44.
10. **Hernandez, J.**, and Spencer, M.S. (2020). "Weaving Indigenous Science into Ecological Sciences: Culturally Grounding Our Indigenous Scholarship." *Human Biology* 92.1: 5-9.
11. Spencer, M. S., Fentress, T., Touch, A., & **Hernandez, J.** (2020). Environmental Justice, Indigenous Knowledge Systems, and Native Hawaiians and Other Pacific Islanders. *Human Biology*, 92(1), 45-57.



12. **Hernandez, J.** (2019). Indigenizing Environmental Justice: Case studies from the Pacific Northwest. *Environmental Justice*. 12(4), 175-181.

BOOKS

13. **Hernandez, J.** (forthcoming). *Growing Papaya Trees Nurturing Indigenous Roots of Climate Displacement & Justice*. North Atlantic Books. Penguin Random House.
14. **Hernandez, J.** (2022). *Fresh Banana Leaves: Healing Indigenous Landscapes through Indigenous Science*. Huichin, unceded Ohlone land, aka Berkeley, California: North Atlantic Books. Penguin Random House.

BOOK CHAPTERS

15. **Hernandez, J.**, Adams M., Vold, V., Jennings, L., et al., (2024) “Honoring our Responsibilities while “Doing Science”: Indigenous Scientists’ Perspectives” In L. A. Jacobs (Ed.). *Indigenous Voices: Critical Reflections on Traditional Ecological Knowledge*. (OSU Press).
16. Jacobs, L.A., Yamane, C.Y., **Hernandez, J.**, McAllister, T., Carlson, A. K., et al., (2024). A Critical Declaration of Decolonization and Indigenization for Scientific Research and the Academy. In L. A. Jacobs (Ed.). *Indigenous Voices: Critical Reflections on Traditional Ecological Knowledge*. (OSU Press).
17. **Hernandez, J.**, & Scherr, R. (2023) “Science Teachers Learning the Hidden Histories in Western Science” in *Active and engaging classrooms: A practical exploration*. American Educational Research Association (AERA) Classroom Management Special Interest Group-sponsored book series. Forthcoming.
18. **Hernandez, J.** & Cabrera-Lopez, J. (2022), “Generations of Hope for Indigenous Mayan Futures” in *Engendering Central American Mujeres Testimonios*, Arizona University Press. Forthcoming.
19. **Hernandez, J.** (2020), “The Role of Environmental Economics in Environmental Justice” in *The Medicine Wheel: Environmental Decision-Making Process of Indigenous Peoples*. (1st ed.). Michigan State University Press.
20. **Hernandez J.** (2020), “Environmental Curriculum Supplement” in *The Whale Child*. Berkeley, California: North Atlantic Books.



BOOK AWARDS

- Los Angeles Times Book Finalist for Science & Technology. 2023
- Bruce Piasecki and Andrea Masters Annual Book Award, New York State Writers Institute. Award for top book that addresses issues such as climate change or a solution to racial and gender equality. 2022
- Literary Lion Award, King County Library System Foundation. Award to celebrate the top authors from the Pacific Northwest. 2022

PUBLICATION AWARDS

- Rosalind Franklin Society Special Award in Science for Environmental Justice Journal. 2023

EDITORIAL BOARD

- Environmental Justice Journal. ISSN: 1939-407. Online ISSN: 1937-5174 2022 - present

GUEST EDITOR: PEER-REVIEW JOURNAL

- The Physics Teacher Journal, Special Edition: Environment, Sustainability, and Climate Change 2022-2023
- Human Biology Journal, Special Edition: Indigenous Science & Ecology 2019

PRESENTATIONS

INVITED TALKS & KEYNOTE PRESENTATIONS *(selected)*

- Women's HERstory Keynote: Jessica Hernandez, Ph.D. California Institute of Technology. March 2023
- Tierra Madre: Indigenous Women and Ecofeminism with Dr. Jessica Hernandez. Cal State University, Los Angeles. March 2023
- "Beyond Acknowledgements: Indigenous Ways of Knowing." Occidental College. March 2023
- "Honoring our First Science: Indigenous Science." New Mexico State University, Las Cruces. February 2023



“Healing Indigenous Landscapes through Indigenous Science.” Feminist Research Institute. University of California Davis.	October 2022
Book talk: “Fresh Banana Leaves: Healing Indigenous Landscapes Through Indigenous Science.” Indigenous Peoples Week. Cal Poly Humboldt.	October 2022
“Indigenous Futures in the Era of Climate Displacement a Talk by Dr. Jessica Hernandez.” Department of Gender, Race and Identity. University of Nevada, Reno.	October 2022
“Relationships.” 2022 National Traditional Ecological Knowledge Summit. Oregon State University.	May 2022
“Beyond Western Science: Acknowledging Indigenous Science.” Irwin L. Slesnick Symposium, Science Math and Technology Education. Western Washington University.	May 2022
“Indigenous Futures: Impacts of Land Grants.” Latinx Resource Center & Sustainability Resource Center. University of California Irvine.	April 2022
“Healing Indigenous Landscapes through Indigenous Science.” University of California, Los Angeles.	April 2022
“Author Spotlight - Dr. Jessica Hernandez.” Pleasanton Library & Recreation.	April 2022
“Voices for Justice: Dr. Jessica Hernandez on Fresh Banana Leaves.” Chicago Public Library.	March 2022
“Indigenous Science from AbiaYala.” Spanish 625. Indigenous Literatures and Cultures of the Americas, University of North Carolina at Chapel Hill.	March 2022
“Indigenous Science & Climate Change.” School of the Environment, University of Toronto.	March 2022
“Healing Indigenous Landscapes through Indigenous Science.” Sloan Foundation.	March 2022
“An Indigenous Perspective on Climate Healing.” Mothers Out Front.	March 2022
“McMaster Celebration of International Women’s Day 2022 with Dr. Jessica Hernandez.” McMaster University.	March 2022
“Indigenous Biology, Science for our Communities.” iDigTRIO Biology Career Conference & Fair.	Feb 2022
“Indigenous Science & Biodiversity.” The Bio-Diverse Festival.	October 2021
“Communicating Hidden Histories to Increase Understandings of Colonialism and Racism in Science: Storytelling Through Metaphors, Analogies, and Media.” <i>Panelist</i> , Inclusive SciComm Symposium Metcalf Institute.	October 2021
“Indigenous Science & Climate Change.” California Academy of Sciences — Virtual Night School.	September 2021



“Indigenous Science and Medicine.” Medicine Panel. Sacred Wisdom, Sacred Earth Centering Indigenous Knowledge for Future Generations.	August 2021
“Flowing from City to Sea: A panel on Water Justice” Young Women Empowered (Y-WE) and Urban League of Metropolitan Seattle.	June 2021
“Tribal Participatory Research: Engaging Research with Tribal Communities.” Bee Friendly Committee. University of California, Irvine.	May 2021
“Honoring the First Caretakers of Mother Earth.” La Fuerza Student Group, Cal State Long Beach.	April 2021
“Supporting Indigenous Communities in the time of Climate Change & Global Pandemic, Indigenous Women’s Series.” Oberlin College.	March 2021
“Indigenizing Environmental Science: Centering Indigenous Knowledge in Academia.” University of California, San Diego AISES.	March 2021
“Food, Water, and Housing is Life.” Office of Multicultural Student Success, DePaul University.	February 2021
“Indigenous Communities & Environmental Racism.” Student Equitable Medicine Initiative (SEMI).	February 2021
“Indigenous Lands before Urban Parks.” Indigenous Feminisms Speaker Series.” wələbʔaltx” Intellectual House, University of Washington, Seattle.	December 2019
“Indigenizing Restoration at Daybreak Star.” Northwest Horticultural Society Annual Meeting, Center for Urban Horticulture.	November 2019
“Local Climate Justice.” Black Lives on the Front Line: Climate Justice Discussions, Fridays for Future Seattle. City of Seattle Town Hall.	November 2019
“Womxn of Color in STEM.” Science in the City, Pacific Science Center.	March 2019
“Indigenous Lands Before Urban Parks: Indigenizing Restoration in Discovery Park.” Urban Natural Areas Seminar: Let’s Talk About Plants. University of Washington Botanic Gardens Center for Urban Horticulture.	January 2019

CONFERENCE PRESENTATIONS

“Honoring Indigenous Peoples, Knowledge, & Rights.” Equal Rights and Justice in a Challenging Season: Honoring the Humanity of All. Westfield State University.	March 2022
“From Land Acknowledgments to Action: Highlighting the Need to Engage with Indigenous History.” Physics Education Research Conference (PERC). <i>Virtual.</i>	August 2021



- “From Land Acknowledgments to Action: Engaging with Indigenous History.” American Association of Physics Teachers (AAPT) Conference. Virtual. July, 2021
- “Indigenizing Science and Reasserting Indigeneity in Research.” American Indian Science and Engineering Society (AISES) Conference, Milwaukee, Wisconsin. October 2019
- “The Future of Research is Indigenous: Indigenizing Conservation.” Native American and Indigenous Student Association International Conference (NAISA), University of Waikato, New Zealand. June 2019
- “Indigenizing Environmental Justice in the Pacific Northwest & Making Waves: Empow(her)ed Native Women Indigenizing Environmental and Food Justice in the Pacific Northwest.” Native American and Indigenous Student Association International Conference (NAISA). Los Angeles, CA June 2018

CONFERENCE & SYMPOSIUM PLANNING

- Chair & Organizer. “Indigenous Peoples Day Panel: Indigenous Futures in the Era of Climate Change.” October 2021
- Committee Member, Media Relations Director & Secretary. “The Living Breath of wələbʔaltxʷ: Indigenous Foods and Ecological Knowledge 5th Annual Symposium.” May 2018
- Chair & Organizer. “Environmental (IN)Justice Showcase Symposium.” June 2017
- Committee Member, Media Relations Director & Secretary. “The Living Breath of wələbʔaltxʷ: Indigenous Foods and Ecological Knowledge 5th Annual Symposium.” May 2017
- Co-Chair & Volunteer & Promotion Director. “16th Annual Research Symposium: “Stories of Resistance from Indigenous Peoples.” May 2017
- Co-chair & Funding/Sponsorships Director. “Making NOIS-e for Standing Rock” December 2016
- Co-chair & Media Relations Director. “15th Annual Research Symposium: “Scholarship as Resistance: Indigenous Research Unsettling the Academy.” May 2016
- Chair & Event Planner. “American Indian Science & Engineering Society Regional 2 Conference.” April 2012

MEDIA APPEARANCES & INTERVIEWS *(selected)*

- The Ten Best Science Books of 2022. Smithsonian Magazine. December 2022
- Beyond Decolonization: Activists Working Towards Decolonization via Yes Magazine August 2022



July 2022

100 Most Powerful Women of Central America via Forbes Centro América.

New book says Indigenous knowledge is key to fighting climate change via Yale Climate Connections.

April 2022

Fresh Banana Leaves' spotlights Indigenous science for a warming planet via Here & Now, NPR and WBUR Boston

April 2022

Indigenous Knowledge Is Central to Climate Solutions via Science Friday.

April 2022

Fresh Banana Leaves — An Indigenous Approach to Science via NPR Short Wave.

April 2022

Healing the Land with Indigenous Science via Atmos.

March 2022

Can indigenous knowledge help us design a more sustainable future? via Financial Times.

March 2022

Indigenous Science with Jessica Hernandez via Latino USA.

February 2022

Indigenous Science with Jessica Hernandez via Factually! with Adam Conover.

February 2022

An Indigenous Scientist Wants us to Look at Conservation Differently via The Allegheny Front.

February 2022

Many Indigenous languages lack a word for 'conservation.' Here's why via Popular Science.

January 2022

What's Indigenous Science? with Dr. Jessica Hernandez via Getting Curious with Jonathan Van Ness.

January 2022

Want to heal the planet? Stop ignoring Indigenous science via Grist.

January 2022

Jessica Hernandez on Why Western Environmentalism Won't Save Us via Audubon.

January 2022

Decolonizing Conservation: Native Communities Know How to Protect Nature via Teen Vogue.

January 2022

Want to know how to save nature? Ask Indigenous scientists via Vox.

January 2022

First Indigenous Professor Tapped to Teach Intro Course in Climate Change at UW via HipLatina.

September 2021

First Indigenous Professor Tapped to Teach Intro Course in Climate Change at UW via Remezcla.

October 2021

With mic and spade, this researcher-turned-podcaster is helping restore Seattle's Indigenous landscape via Crosscut.

November 2019