

Sarah Gutzmann

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Education

Simon Fraser University <i>2024 – present</i>	<ul style="list-style-type: none">• PhD, Resource and Environmental Management• Ocean Equity Lab• Ocean Nexus
Simon Fraser University <i>2021 - 2023</i>	<ul style="list-style-type: none">• MRM, Master of Resource Management• Coastal Marine Ecology and Conservation Lab• Community Engaged Research (CERi) Fellow• Research Meets Policy Fellow
Simon Fraser University <i>2013-2019</i>	<ul style="list-style-type: none">• BSc, Environmental Science Honours First Class with Distinction• Applied Biology Concentration• Environmental Toxicology Minor• Co-Operative Education designation• Sole recipient of Dean of Environment Convocation Medal
Bamfield Marine Sciences Center <i>2017</i>	<ul style="list-style-type: none">• Completed intensive, field-based Fall Program courses and research project through Bamfield Marine Sciences Center
University of Jyväskylä, Finland <i>2017</i>	<ul style="list-style-type: none">• Completed Boreal Winter Ecology program through the Winter Field School of Ecology at the Konnevesi Research Station

Professional Designations and Certifications

- Regenesys Institute, **Regenerative Practitioner**
- Early Career Ocean Professionals (ECOP) Ambassador
- College of Applied Biologists – **Biologist in Training (BIT)**
- First Nations Information Governance Center: **Fundamentals of OCAP®** (ownership, control, access, possession)
- Certified in Research Ethics based on the Tri-Council Policy Statement: **Ethical Conduct for Research Involving Humans (TCPS 2: CORE 2022)**
- Small Vessel Operator Proficiency (SVOP), Small Domestic Vessel Basic Safety (SDV-BS), and Restricted Operator Certificate – Maritime (ROC-M) certifications
- PADI Emergency Oxygen Provider

Research: Social-ecological Systems and Policy

PhD Candidate <i>Simon Fraser University</i>	2024 – present
Subcontractor: Researcher and Seaweed Mariculture Specialist <i>ESSA and PEW Charitable Trusts</i>	2025 – present
Research Assistant: Ocean Equity Lab <i>Simon Fraser University</i>	Fall 2023
Masters Thesis Researcher <i>Simon Fraser University</i>	2021 - 2023

Research: Biology and Environmental Science

Environmental Scientist Select projects; 2021 – 2025

<i>Azimuth Consulting Group Inc.</i>	Full time; 2020 – 2021
Research Assistant: Lower Mackenzie Whitefish Project <i>Simon Fraser University</i>	2019 - 2020
Research Assistant: literature review and data collection <i>Simon Fraser University</i>	Fall 2019
Honours Thesis Undergraduate Researcher <i>Simon Fraser University</i>	2018 - 2019
Salmon Habitat Restoration Program (SHaRP) Riparian Enhancement Team Lead <i>Dillon Consulting Ltd.</i>	Summer 2018
Directed Studies Undergraduate Researcher <i>Bamfield Marine Sciences Center</i>	Fall 2017
NSERC USRA Research Assistant: climate change, salmon, and energy storage <i>Simon Fraser University</i>	Summer 2017
Integrated Pest Management Field Technician <i>ES. Cropconsult Ltd.</i>	Summer 2014
Volunteer Marine Mammal Rescue Center Assistant <i>Marine Mammal Rescue Center</i>	2011 - 2015

Advisory Councils and Conference Planning

Resource and Environmental Management Executive Committee – PhD Representative <i>Simon Fraser University</i>	2025 - present
Seaweed Summit Program Committee Member <i>North Island College</i>	2025 - present
Working Group Member <i>Healthy and Resilient Ocean Decade Priority Working Group</i>	2022 - 2025
Program Co-chair <i>Pacific Ecology and Evolution Conference (PEEC)</i>	2022 - 2023

Teaching Experience

Sessional Instructor: Introduction to Resource and Environmental Management <i>Simon Fraser University</i>	Spring 2026
Teaching Assistant: Environmental Policy <i>Simon Fraser University</i>	Fall 2025
Teaching Assistant: Introduction to Resource and Environmental Management <i>Simon Fraser University</i>	Spring 2024, 2025
Teaching Assistant: Ecological Economics <i>Simon Fraser University</i>	Fall 2024
Genetics Peer Educator <i>Simon Fraser University</i>	Spring 2016

Mentorship Experience

Undergraduate volunteer in Resource and Environmental Management	Spring 2026 – present
Undergraduate volunteer in Biology	Fall 2025 – present
Undergraduate research assistant in Resource and Environmental Management	2025

Public Education and Outreach

Ocean Bridge Cohort Member IMPAC5 Coastal Connections Member <i>Ocean Wise</i>	2020 - 2023
Interpreter Street Team Member Marine Educator Leadership Council <i>Vancouver Aquarium</i>	2009 - 2020
Northern Outreach and Engagement Team Member <i>Parks Canada</i>	2016 - 2017
Alumni Board Member Counselor Trainer <i>Outdoor School at the Cheakamus Center</i>	2011 - 2014

Peer Reviewed Publications

- Hesketh, A., V., **Gutzmann, S. B.**, Allchurch, A. E., Attridge, C., Pawluk, K., Humchitt, L., Parker, D., Wright A., Cisneros-Montemayor, A., Salomon, A. K. (*in review*). Navigating towards resilient relationships with kelp.
- Gutzmann, S. B.** Ayala-Bocos, A., Becerril-García, E. E., Berdeja-Zavala, O., Pozas-Franco, AL., Favoretto, F., Frías Hernández, L. E., Vargas Cossío, C. P., Cisneros-Montemayor, A. M. (*in review*). Ecosystem service valuation of remote islands: the Revillagigedo Archipelago, Mexico.
- Gutzmann, S. B.**, Cisneros-Montemayor, A. M. (2026). Planning for an expanding industry: Opportunities for a successful kelp economy in British Columbia. In: Temperate Phyconomy. Springer.
- Gutzmann, S. B.**, Humchitt, C., Kowalchuk, K., Hunt, D., Allchurch, A., Cisneros-Montemayor, A., & Salomon, A. K. (2025). Indigenous resurgence in the Blue Economy: Relational values to guide kelp mariculture. *People and Nature*, 00, 1–18. <https://doi.org/10.1002/pan3.70214>
- Gutzmann, S. B.**, Hodgson, E. E., Braun, D., Moore, J. W., & Hovel, R. A. (2022). Predicting fish weight using photographic image analysis: A case study of broad whitefish in the lower Mackenzie River watershed. *Arctic Science*, as-2021-0017. <https://doi.org/10.1139/as-2021-0017>
- Wilson, S. M., Robinson, K. A., **Gutzmann, S.**, Moore, J. W., & Patterson, D. A. (2021). Limits on performance and survival of juvenile sockeye salmon (*Oncorhynchus nerka*) during food deprivation: A laboratory-based study. *Conservation Physiology*, 9(1), coab014. <https://doi.org/10.1093/conphys/coab014>

Other Publications

- Tamburello, N., Gillies, E., **Gutzmann, S.**, Cypher, A., and Hollarsmith, J., 2025. Cultivating with Care: An Environmental Effects Monitoring Framework for Sustainable Seaweed Farming in Alaska and British Columbia. 126 pages + appendices.

8. Cisneros-Montemayor A, **Gutzmann S**, Pozas-Franco AL, Frías-Hernández LE, Ayala-Bocos A, Becerril-García EE (2025) Valoración Económica de los servicios ecosistémicos del Parque Nacional Revillagigedo, México. En: Álvarez-Icaza-Longoria P, Rodríguez-Tapia L, Revollo-Fernández DA (Eds.) Valoración de servicios ecosistémicos en Áreas Naturales Protegidas federales de México. Universidad Autónoma Metropolitana (UAM), Comisión Nacional de Áreas Naturales Protegidas, CDMX, 289 pp. Available at (05-11-2025): <https://www.gob.mx/conanp/documentos/libro-valoracion-de-servicios-ecosistemicos-en-areas-naturales-protegidas-federales-de-mexico?idiom=es>
9. **Gutzmann, S. B. (2023)**. [Centering Indigenous governance principles, values, and objectives to build a just blue economy decision space](#) [MRM, Simon Fraser University].
10. Harmer Creek Evaluation of Cause Team. (2023). Evaluation of Cause — [Reduced Recruitment in the Harmer Creek Westslope Cutthroat Trout Population. Report prepared for Teck Coal Limited.](#)
11. Evaluation of Cause Team (2021) Evaluation of Cause — Decline in Upper Fording River Westslope Cutthroat Trout Population. [Final report prepared for Teck Coal Limited by Evaluation of Cause Team.](#)

Presentations, Panels, and Workshops

1. **Gutzmann, S. B.**, *Planning for an expanding industry: Opportunities for a successful kelp economy in British Columbia*. Coastal Zone Canada Conference. Charlottetown, PEI. June 2025
2. **Gutzmann, S. B.**, *PhD Proposal Defense*. School of Resource and Environmental Management. Simon Fraser University. Burnaby, BC. June 2025
3. Tamburello, N., Cypher, A., **Gutzmann, S. B.**, Gillies, E. *Exploring Needs and Opportunities for Improved Monitoring of the Benefits and Impacts of Seaweed Farming in Alaska and British Columbia*. Presentation and Workshop. International Seaweed Symposium. Victoria, BC. May 2025
4. **Gutzmann, S. B.**, Humchitt, C., Kowalchuk, K., Hunt, D., Allchurch, A., Cisneros-Montemayor, A., Salomon, A. K. *Indigenous Resurgence in the Blue Economy: Relational Values to Guide Kelp Mariculture*. International Seaweed Symposium. Victoria, BC. May 2025
5. **Gutzmann, S.** *Planning for an expanding industry: Opportunities for a successful kelp economy in British Columbia*. Invited Poster Presentation. Next Generation Marine Science Unboxed: Opening new scientific knowledge for Salish Sea conservation, Northwest Straights Foundation. Padilla Bay Research Reserve. Mt. Vernon, WA. March 2025.
6. **Gutzmann, S.** *Sustainable Development Goal 14 in practice*. Invited Guest Lecture in SD281. Simon Fraser University. March 2025.
7. **Gutzmann, S.** *Centering Indigenous governance principles, values, and objectives to build a just blue economy decision space*. The Northeast Pacific Biodiversity Action Network, Kelp Node Working Group 5. Invited Speaker. Virtual. June 2024.
8. **Gutzmann, S.** *Centering Indigenous governance principles, values, and objectives to build a just blue economy decision space*. Les Ecologists Seminar Series. Invited Speaker. Simon Fraser University. February 2024.
9. **Gutzmann, S.** *Centering Indigenous governance principles, values, and objectives to build a just blue economy decision space*. Marine Plan Partnership (MaPP) and Ecosystem Based Management Subcommittee monthly meeting. Government of British Columbia. Invited Speaker. Virtual. November 2023.
10. **Gutzmann, S.** *Centering Indigenous governance principles, values, and objectives to build a just blue economy decision space*. MRM Thesis Defence. Simon Fraser University, September 2023.
11. **Gutzmann, S.** Young Professionals panel at Coastal Zone Canada Association 2023 Conference. Invited Speaker. Victoria. June 2023
12. **Gutzmann, S.**, Humchitt, C., Kowalchuk, K., Cisneros-Montemayor, A., Denley, D., Salomon, A. *Social-ecological trade-offs in Indigenous kelp fisheries and mariculture can reveal climate-resilient and socially just ocean governance*. Coastal Zone Canada Association 2023 Conference. Victoria. June 2023

13. **Gutzmann, S.** *Decision making between wild kelp harvest and kelp mariculture: exploring social, ecological, and economic trade-offs.* Simon Fraser University Community Engaged Research Fellowship Symposium. 312 Main, Vancouver. April 2023.
14. **Gutzmann, S.** *The teachings of kelp: assessing Kwakiutl principles, community values, objectives, and trade-offs to cultivate climate resilience in kelp harvest and farming.* BC Kelp Working Group monthly meeting. Invited Speaker. Virtual. April 2023
15. **Gutzmann, S.** *The teachings of kelp: assessing Kwakiutl principles, community values, objectives, and trade-offs to cultivate climate resilience in kelp harvest and farming.* Simon Fraser University Inter-Departmental Ecology of Aquatic Species (IDEAS) Symposium. Simon Fraser University, April 2023.
16. Allchurch, A., **Gutzmann, S.**, Bood, S., Humchitt, C., Peeler, M., Kowalchuk, K., Thompson, M., Cisneros-Montemayor, A., Denley, D., Salomon., A. *A'axsila K'aladi: Taking Care of Giant Kelp Patches.* Seaweed Industry Development Workshop. Port Hardy, BC. Invited Speaker. April 2023.
17. **Gutzmann, S.**, Allchurch, A. *A'axsila K'aladi: Taking Care of Giant Kelp Patches - Update.* Community presentation and update on collaborative research project for the Kwakiutl Nation in community hall. March 2023.
18. **Gutzmann, S.** *Scholar's update for Caroline Gibson Scholarship in Marine Studies – including A'axsila K'aladi: Taking Care of Giant Kelp Patches.* Presentation for Northwest Straights Foundation Scholar's Reception. Port Townsend, USA. September 2022.
19. **Gutzmann, S.**, Allchurch, A. *A'axsila K'aladi: Taking Care of Giant Kelp Patches.* Community presentation and update on collaborative research project for the Kwakiutl Nation in the Big House. August 2022.
20. **Gutzmann, S.** *Decision making between wild kelp harvest and kelp mariculture: exploring social, ecological, and economic trade-offs.* Simon Fraser University Inter-Departmental Ecology of Aquatic Species (IDEAS) Symposium. Simon Fraser University, April 2022.
21. **Gutzmann, S.** *Public education and communication workshop.* Graduate level workshop designed and delivered to provide toolbox for graduate students to improve communication and engagement skills. Simon Fraser University, October 2021
22. **Gutzmann, S.** *Photography as an application for harvest-based monitoring of luk digaii (broad whitefish, Coregonus nasus) in the Gwich'in Settlement Area.* B.Sc. Honours Thesis Defence. Simon Fraser University, April 2019
23. **Gutzmann, S.**, Hodgson, E., Braun, D. and Moore, J. *Photography as an application for harvest-based monitoring of broad whitefish (Coregonus nasus) in the Gwich'in Settlement Area.* Simon Fraser University Inter-Departmental Ecology of Aquatic Species (IDEAS) Symposium. Simon Fraser University, January 2019.
24. **Gutzmann, S.**, Hamilton, S. *Egregious effluent: Toxic microplastic's effects on fertilization success and larval development of Dendroaster excentricus.* Bamfield Scholar's Society 22nd Annual Symposium. Bamfield Marine Sciences Center, December 2017

Media

[Advancing regenerative kelp practices for coastal communities present and future.](#) June 3, 2024. Simon Fraser University. Faculty of Environment News.

Research Grants

Ocean Wise Action Grant	\$5,000	2025
Mitacs Accelerate	\$180,000	2024 - 2028
Willow Grove Foundation	\$80,000	2024 - 2028
SSHRC Doctoral Fellowship	\$120,000	2024 - 2028
SFU 2022 Community Engagement Initiative	\$6,200	2022 - 2023

NSERC Graduate Scholarship-Master's	\$17,500	2021 - 2022
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Academic Awards and Scholarships

SFU PhD Research Award	\$11,494 total	2024 - 2026
SFU Travel and Research Award	\$7,375 total	2022 - 2025
SFU Graduate Fellowship – PhD	\$7,000	2024
Paul Higgins Resource and Environmental Management Graduate Award Endowment	\$2,300	2024
Coastal Zone Canada Association Early Career Professionals Conference Travel and Attendance Grant	\$1000	2023
SFU Community Engaged Research Initiative (CERi) Fellowship	\$3,000	2022-2023
Simons Foundation Graduate Award in the Faculty of Environment	\$6,000	2022
Andre Gerolymatos Graduate Award in Environmental Security	\$1,900	2022
Northwest Straights Foundation Caroline Gibson Scholarship in Marine Studies	\$2,500	2022
SFU Graduate Fellowship - MRM	\$7,000	2021
BC Nature, Bert Brink Scholarship	\$2,500	2021
Alton Harestad Book Award in Environmental Science		2019
Dr. Abe Unrau Memorial Co-op Award	\$1,900	2019
American Fisheries Society C. Jeff Cederholm Undergraduate Scholarship	\$1,200	2019
Real Property Institute of Canada Scholarship in Environmental Studies Undergraduate Program	\$2,000	2018
Beverly Raymond Scholarship in Biology and Environmental Science	\$2,000	2018
Adorlee Beauty Inc. Undergraduate Scholarship in Environmental Toxicology	\$3,000 total	2016, 2017, & 2018
SFU Open Scholarship	\$10,640 total	2014 – 2018
SFU President's Honour Roll		2014 – 2018
SFU Dean's Honour Roll		2014 – 2018
Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award	\$4,500	2017
Bamfield Marine Science Center Entrance Award	\$1,000	2017
Enid Harris Scholarship in Environmental Science	\$1,100	2017
Ron MacLeod Scholarship in Environmental Science	\$1,800	2016
SFU Alumni Scholarship	\$1,500 total	2014 & 2015
Previous graduation scholarships	\$13,505 total	2013