

Meaghan Efford

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[ORCID](#) · [ResearchGate](#) · [Academia.edu](#)

[Member](#) of British Columbia Association of Professional Archaeologists

Registered Professional Archaeologist (ID 5450)

CURRENT

Institute for the Oceans and Fisheries (IOF), University of British Columbia

- [PhD Candidate](#)
- [Mitacs Accelerate Intern](#)
- Global Oceans Modelling Group: Lab Member, Lab Representative
- United Nations Association in Canada Delegate: The New Diplomacy of Natural Resources
- IOF Student Society: Co-chair of Justice, Equity, Diversity, and Inclusion Subcommittee
- IOF Faculty: Member of the Respect, Equity, Diversity, and Inclusion (REDI) Committee
- Graduate Student Facilitator: Centre for Teaching, Learning, and Technology (CTLT), UBC
- Dissertation Title: *From Ecosystem Abundance to the City of Vancouver: A Story of Stewardship and Colonization on Canada's West Coast*

University of British Columbia

- Member of the Conference Diversity Development Committee
- <https://conferencediversity.ubc.ca/>

EDUCATION

University of Victoria: Department of Anthropology

Masters in Anthropology

September
2019

Thesis: Ts'a7inwa (gooseneck barnacles) as a proxy for archaeological efforts to understand shellfish as food in Nuu-chah-nulth territories

University of Victoria

BA Honours in Anthropology, Minor in Hispanic Studies

June 2016

Thesis: The Implications of Thermogenic Modification for Anthropological Recovery of Burned Bone

AWARDS AND FELLOWSHIPS

Mitacs Accelerate Internship

\$120,000 over four years: September 2019-September 2023

Four Year Doctoral Fellowship (4YF)

\$72,800 over four years: September 2019 – *undetermined* (on hold while Mitacs Intern)

President's Academic Excellence Initiative PhD Awards

\$1500

Ocean Leaders Fellowship

\$4,000: 2020/2021 and \$4,000: 2021-2022 Academic Years

UVIC Graduate Award

\$4,000: July 2018

WORK EXPERIENCE

Contract Archaeologist

2015-present

Zooarchaeology and faunal analysis.

Consultation and quantification work, varying including:

Tsleil-Waututh Nation

- Faunal material inventory, quantification, analysis, and re-packaging of midden material from sites in Burrard Inlet, BC region

Pacific Identification Inc.

- Quantification of shell midden material from the Cowichan Valley region

Ecology North

May-July 2022

Compendium Contributor: short term contract

Royal BC Museum

May – Sept 2018

Co-op Position: Archaeology Assistant in First Nations & Repatriation Dept.

Supervisor: Dr. Genevieve Hill, Anthropology Collections

- Cataloguing project: cataloguing and organizing all archaeological site files in the department, creating a living inventory for department members to search of all files relating to archaeological work in BC
- Field work in Cowichan Valley, BC
- Shellfish collections management project: organizing material, reviewing collection intake and organization processes, sample analysis, final report
- Creating and implementing learning kits and plans for adult day camps

Uvic Historical Ecology and Coastal Archaeology Field Course

August 2018 and
July-August 2017

Graduate Research Student

- Field work in the Broken Group Islands, Barkley Sound, BC
- Lab work: faunal analysis of shellfish, sorting and organizing column samples, assisting other students in faunal identification
- Written report published through the Bamfield Marine Sciences Centre on preliminary results in preparation for MA thesis research project (See below, Efford 2017)

Royal BC Museum

Volunteer Archaeology Assistant

Sept. 2016 to
April 2018

Supervisor: Dr. Genevieve Hill, Anthropology Collections

- Field work: surveying for archaeological sites, data collection, shovel tests, photography
- Cataloguing, inventory, data entry, data collection
- Packaging artifacts in protective materials to be catalogued and stored

University of Victoria

Volunteer Lab Assistant

March –
December 2015

- Faunal Archaeology Lab under Becky Wigen
 - Sorted faunal remains from column samples
- Biological Anthropology Lab under Dr. Helen Kurki

Used ScanStudio and GeoMagic Design X software to compile multiple 3D scans of bones into a single 3D model

TEACHING & MENTORSHIP EXPERIENCE

- Vancouver Summer Program, Institute for the Oceans and Fisheries, UBC** March 2023-
Curriculum Designer Present
- Created two undergraduate courses for the Vancouver Summer Program at UBC, adapted from the graduate level Ocean Leaders course (FISH 507)
 - Wrote course handbook
- Centre for Teaching, Learning, and Technology, UBC** June 2021-
Graduate Student Facilitator *present*
- Support UBC graduate students develop teaching skills, as teaching assistants (TAs), as instructors, and as future faculty, through facilitating workshops and training series
- Skype a Scientist** August 2020 –
Scientist Fall 2022
- Presented science talks to K-12 classrooms
- Learning Assistance Program, Centre for Accessible Learning, UVic** January-August
Tutor 2019
- Working weekly with students who seek out tutor support due to diagnosed disabilities, skill development needs, course content concerns, etc.
 - Creating learning and tutoring plans to work with the student's needs, syllabus structure, and course requirements
- University of Victoria**
- Teaching Assistant
- Department of Anthropology
- ANTH 392: Perishable Technologies Summer 2019
 - ANTH 319: Research Methods, Archaeological + Biological Anthropology Summer 2019
 - ANTH 319: Research Methods, Archaeological + Biological Anthropology Spring 2019
 - ANTH 360: Zooarchaeology Spring 2019
 - ANTH 352: Human Osteology Fall 2018
 - ANTH 100: Introduction to Anthropology Spring 2018
 - ANTH 250: Biological Anthropology Fall 2017
 - ANTH 395: Heritage and Historical Archaeology (volunteer) May 2016
 - ANTH 400: History of Anthropological Theory (preparation for course) July 2015
- Centre for Outreach Education** March-May 2015
- Tutor for CORE Mobile Program at the Songhees Wellness Centre: Kwum Kwum Lelum Homework Club
- Supported students through activities and games, one-on one and in groups
 - Provided a safe, encouraging environment in which students can feel comfortable learning and asking questions

FIELD EXPERIENCE

Royal BC Museum

Through volunteer and co-op positions:

- Surveying for archaeological sites, data collection, shovel tests, photography, monitoring heavy duty equipment activities
- Working with Cowichan Tribes Cultural Interpreters to ensure safety of cultural sites, material, and deposits.

Historical Ecology and Coastal Archaeology Field Course

As a graduate student:

- Historical ecological and archaeological field work to gather data relevant to field course goals
- Clam garden historical ecology, intertidal mapping, archaeological unit mapping, site mapping

PUBLICATIONS

Published

Morin, Jesse; Evans, Aaron Blake; Efford, Meaghan. (2023). The Rise of Vancouver and the Collapse of Forage Fish: A Story of Urbanization and the Destruction of an Aquatic Ecosystem on the Salish Sea (1885-1920 CE). *Human Ecology*. <https://doi.org/10.1007/s10745-023-00398-w>

Sumaila, UR et al. 2021. WTO must ban harmful fisheries subsidies. *Science* 374(6567): 544. <https://www.science.org/doi/10.1126/science.abm1680>.

Efford, Meaghan. September 17, 2020. Destruction in your backyard: why we need to keep industry accountable. Guest Post published by OceanBites: <https://oceanbites.org/destruction-in-your-backyard-why-we-need-to-keep-industry-accountable-guest-post-by-meaghan-efford/>.

Couture, Fanny; Efford, Meaghan; Mangar, Roshni; Oddo, Matias. April 8, 2020. Habitat Change in Burrard Inlet: Mapping the Evolution of Coastal Waters in Metro Vancouver. StoryMap published through ESRI StoryMaps: <https://tinyurl.com/burrardinlet>.

Efford, Meaghan; Hicks, Adam; Mejaes, Annie; Oddo, Matias. Hidden Consequences. 2020. Video: <https://youtu.be/NPznKuunyQc>

Efford, Meaghan. 2017. An Archaeological Assessment of Rare Shellfish at Two Nuuchah-nulth Sites: Kakmakimilh (306T) and Huu7ii (DfSh-7). A report submitted in partial fulfillment of the requirements of Historical Ecology and Coastal Archaeology at the Bamfield Marine Sciences Centre, Instructor: Iain McKechnie.

Efford, Meaghan. 2016. The Implications of Thermogenic Modification for Anthropological Recovery of Burned Bone. *Arbutus Review*. 7(1): 20-37. <https://journals.uvic.ca/index.php/arbutus/article/view/16054>

Working

Efford, Meaghan, Camilla Speller, Jesse Morin, Hannah Cavers, Jay Hilsden, Villy Christensen. 2023 (**expected**). Archaeology demonstrates sustainable Ancestral Coast Salish salmon stewardship over thousands of years pre-contact.

CONFERENCE PRESENTATIONS

Efford, Meaghan. 2022. *Impacts of urbanization and colonization on Tsleil-Wat (Burrard Inlet, BC, Canada) and Tsleil-Waututh Nation's traditional stewardship practices*. Presentation. ICES Annual Science Conference 2022 (International Council for the Exploration of the Sea).

Efford, Meaghan. 2022. *Salmon in Tsleil-Wat: an application of ZooMS on archaeological salmonid remains from t̓əmt̓ə́m̓íxʷt̓ən (Tum-tumay-whueton)*. Presentation. Northwest Archaeology Conference 2022 (NWAC2022).

- Efford, Meaghan. 2021. *Multiple ways of knowing in ecosystem science and archaeology in the context of Tsleil-Waututh Nation's Cumulative Effects Monitoring Initiative (CEMI)*. Panel Presentation. The Royal Anthropological Institute of Great Britain and Ireland: Anthropology and Conservation Conference (ACC2021). London, UK (virtual). Northwest Archaeology Conference 2022 (NWAC2022).
- Efford, M., Oddo, M. B., Taft, S., Morin, J., Lilley, P., Christensen, V. 2020. *Tsleil-Waututh Nation's Cumulative Effects Monitoring Initiative: Ecosystem Modelling Framework*. Poster presented at the 6th International Marine Conservation Congress (IMCC6). Kiel, Germany (held virtually).
- Efford, M., Oddo, M. B., Taft, S., Morin, J., Lilley, P., Christensen, V. 2019. *Tsleil-Waututh Nation's Cumulative Effects Monitoring Initiative: Ecosystem Modelling Framework*. Poster presented at Ecopath 35. Florida, USA.
- Efford, M., Oddo, M. B., Taft, S., Morin, J., Lilley, P., Christensen, V. 2019. *Ecological modeling and archaeological investigations into pre-contact (AD 1792) Tsleil-Waututh diets in Burrard Inlet*. Thesis project presented at The Archaeology Forum 2019, North Vancouver, Canada (Tsleil-Waututh Nation).
- Efford, M., Oddo, M. B., Taft, S., Morin, J., Lilley, P., Christensen, V. 2019. *Tsleil-Waututh Nation's Cumulative Effects Monitoring Initiative: Ecosystem Modelling Framework*. Poster presented at Indigenous Research Support Initiative Research Day. Vancouver, Canada.
- Efford, Meaghan, Iain McKechnie. 2019. *Gooseneck Barnacles and the Archaeology of Nuu-chah-nulth Shellfish Management*. Poster presented at the Society for Ethnobiology Conference at the University of British Columbia, May 10th 2019.
- Efford, Meaghan, Iain McKechnie. 2018. *Gooseneck Barnacles and the Archaeology of Nuu-chah-nulth Shellfish Management*. Thesis project presented at the Women in Science STEM Research Symposium at the University of Victoria, November 29th 2018.
- Efford, Meaghan, Iain McKechnie. 2018. *Gooseneck Barnacles and the Archaeology of Nuu-chah-nulth Shellfish Management*. Thesis project presented at the 3 Minute Thesis Competition at the University of Victoria, February 27th and March 8th, 2018 (Finalist).
- Efford, Meaghan, Iain McKechnie. 2018. *Gooseneck Barnacles and the Archaeology of Nuu-chah-nulth Shellfish Management*. Poster presented at the Pacific Ecology and Evolution Conference in Bamfield, BC, February 24th 2018.
- Efford, Meaghan, Nicole Smirl, and Brittany Walker. 2017. *Marble Monument Conservation in the Emanu-el Cemetery*. Poster presented as part of Student Research in Coastal and Community Archaeology at the University of Victoria Poster Symposium, SAA Annual Meeting, April 1st 2017
- Efford, Meaghan. 2016. *The Implications of Thermogenic Modification for Anthropological Recovery of Burned Bone*. Paper presented at the Currents in Anthropology Conference, University of Victoria, March 4th 2016.

MEMBERSHIPS AND SERVICE

British Columbia Association of Professional Archaeologists

Student Member

United Nations Association in Canada

New Diplomacy of Natural Resources: Event Delegate

Institute for the Oceans and Fisheries, UBC

Committee Member of Equity, Diversity, Inclusion, and Wellness Committee, 2020-present

Co-chair of Justice, Equity, Diversity, and Inclusion Subcommittee (IOF Student Society) 2020-present

Developing Guidelines to Increase Diversity in Conference Panels and Keynote Speakers, UBC

Committee Member, 2020-present

UVIC Speakers Bureau

Graduate Researcher and Presenter, 2017-2019

Bamfield Marine Sciences Centre

UBC Student Ambassador, 2019-2020

(previously UVIC Student Ambassador, 2017-2019)

PlatForum: Anthropology Graduate Journal

Editor; Editing Board member, 2018-2019

Archaeological Society of British Columbia

Board of Directors, Member at Large, 2017-2020

Journal of Ethnobiology

Anonymous Peer Reviewer

Canadian Journal of Undergraduate Research

Anonymous Reviewer

World Archaeological Congress

Student Member

Society for Ethnobiology

Student Society Member; Ethics and Advocacy Committee Member

Co-author: <https://ethnobiology.org/about-society-ethnobiology/ethics/code-conduct>

2017/18 Search Committee, Chair of Anthropology, UVic

Graduate Student Representative

International Council for Archaeozoology

Student Member

Canadian Anthropology Society

Student Member

PROFESSIONAL DEVELOPMENT

Identity Matters: Connecting Power, Privilege and Bias to Anti-Racism Work

January 2022 – University of British Columbia

Project and Time Management Workshop

January 2022 – Mitacs

Facilitator Development Workshop

May 2021 - Centre for Teaching, Learning, and Technology (CTLT) at UBC

Instructional Skills Workshop

February 2021 - Centre for Teaching, Learning, and Technology (CTLT) at UBC

Indigenous Canada

Ongoing - University of Alberta (through Coursera)

ComSciCon 2020 Write-A-Thon Workshop

August 2020 - Virtual

Ecopath Programming Workshop

Fall 2019 - University of British Columbia, Institute for the Oceans and Fisheries

MEOPAR Science Storytelling Workshop

September 2018 – Saturna Island, BC.

Swing Literacy Development Method (SLDM) Teacher Training Program

CERTIFICATIONS

Small Vessel Operator Proficiency (SVOP) Certificate	May 2018
Restricted Operator Certificate Marine Radio License (ROC-M)	May 2018
MED Small Domestic Vessel Basic Safety (Former MED A3)	April 2018
Standard First Aid + CPR C (Canadian Red Cross: 101833848)	July 2020
Psychological First Aid: Caring for Others (Canadian Red Cross: 101825178)	July 2020
WHMIS 2015	January 2017
Instructional Skills Workshop - Certification	January 2021
Wise Woman Way of Birth Doula Training	March-June 2021
Facilitator Development Workshop – Certification	May 2021
Project and Time Management: Mitacs	April 2022