

## Hope Loisel

PhD Candidate in Archaeology  
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Department of Anthropology  
University of Washington  
Seattle, WA 98195

### Research Interests

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Ancient DNA, Stable Isotopes, Zooarchaeology, Historical Marine Ecology, Marine Mammals, Pacific Rim, Island & Coastal Archaeology, Natural History Collections

### Education

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2018 - present	University of Washington	PhD Candidate in Anthropology, expected 2023 Dissertation: "Historical Marine Ecology & Human Pinniped Relationships in the Northwestern Pacific"
2021	University of Washington	M.A. in Anthropology (Archaeology)
2018	University of Maryland	B.S. in Anthropology (with Honors), Minor in Archaeology

### Appointments

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2021 – present	Predoctoral Fellow, Smithsonian Institution National Museum of Natural History
2018 – 2023	National Science Foundation Graduate Research Fellow, U. of Washington
2019	Graduate Student Fellow, Smithsonian Institution National Museum of Natural History
2018 – 2019	Graduate Research Assistant, North Pacific Archaeology Lab, U. of Washington
2016 – 2018	Intern, Smithsonian Institution National Museum of Natural History

### Publications

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#### In Press

- Hambrecht, G., **H. Loisel**, and R. Miller. "Plenty and Prosperity in the Little Ice Age North Atlantic." In *Archaeologies of Adaptation and Resilience to Climate Change and Environmental Hazards*.
- 2021 Marcelo, Simon, M. Mendoza, HL Liu, M. Martins, S. Drovetski, N. Przelomska, **H. Loisel**, T. Cavalcanti, P. Inglis, N. Mueller, R. Allaby, F. de Oliveira Freitas, L. Kistler. "Phylogenomic analysis points to a South American origin of *Manibot* and illuminates the primary gene pool of cassava." *New Phytologist* 233(1): 534-545.
- 2020 **Loiselle, H.** "Humans, Dolphins, and Porpoises: Investigations at the Par-Tee Site, Seaside, Oregon, AD 100–800." *Ethnobiology Letters* 11(1): 58-66.
- 2020 Marwick, B., L. Wang, R. Robinson, and **H. Loisel**. "How to use replication assignments for teaching integrity in empirical archaeology." *Advances in Archaeological Practice*: 1-9.
- 2018 Kistler, L., S.Y. Maezumi, J.Gd. Souza, N. Przelomska, F.M. Costa, O. Smith, **H. Loisel**, J. Ramos-Madrigal, N. Wales, E.R. Ribeiro, R.R. Morrison, C. Grimaldo, A.P. Prous, B. Arriaza, M.T.P. Gilbert, F. de Oliveira Freitas, R.G. Allaby. "Multi-proxy evidence highlights a complex evolutionary legacy of maize in South America." *Science* 362(6420): 1309-1313.

\* Publication won a 2018 Smithsonian Science Achievement Award

## Fellowships (\$160,500)

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2018 - 2023	National Science Foundation Graduate Research Fellowship (\$138,000 USD)
2023	UW Dept. of Anthropology Niles Dissertation Writing Fellowship (\$15000 USD)
2019	Smithsonian Institution Graduate Student Fellowship (\$7500 USD)

## Research Grants (\$33,730)

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2022	NSF Archaeology Doctoral Dissertation Research Improvement Grant (\$24,205 USD) “Human-Pinniped Relationships & Marine Historical Ecology of Hokkaido”
2020	UW Department of Anthropology Pre-Dissertation Pilot Funds (\$1500 USD)
2018 - 2019	UW Quaternary Research Center Grant: Sea Lion Archaeogenomics (\$8025 USD)

## Presentations (\*student author)

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- Loiselle, H.,** J. Yoshimi\*, L. Kistler, and K. Takase. Insights Into the Ecology and Extinction of the Japanese Sea Lion Using Ancient DNA and Stable Isotope Analysis. **Poster** abstract submitted to International Society for Biomolecular Archaeology, Tartu, Estonia, September 2023. *Upcoming.*
- Sacks, B., C. Quinn, K. Brzeski, S. Vanderzwan, **H. Loiselle**, A. Carmagnini, S. Taylor, B. Lim, L. Kistler, B. vonHoldt, R. Wayne, and L. Frantz. Historical and ancient DNA confirms distinct histories of coyotes versus red and eastern wolves. **Paper** abstract submitted to International Mammalogical Conference, Anchorage, Alaska, July 2023. *Upcoming.*
- Loiselle, H.,** J. Yoshimi\*, L. Kistler, and K. Takase. Integrating Multi-Proxy Evidence to Understand the Historical Marine Ecology of Hokkaido and the Extinction of the Japanese Sea Lion. **Poster** abstract submitted and accepted to International Council for Zooarchaeology Conference, Cairns, Australia, August 2023. *Upcoming.*
- Loiselle, H.,** L. Kistler, M. McGowen, M. Etnier, and B. Fitzhugh. Marine Mammal Hunting in the Kuril Islands: Zooarchaeological and Genetic Insights. **Poster** presented at 88<sup>th</sup> Society for American Archaeology Annual Meeting, Portland, Oregon, March 2023.
- Loiselle, H.** Historical Marine Ecology & Human-Pinniped Relationships in the North Pacific. Zooarchaeology Saves the World Conference, May 2022. **ArcGIS StoryMap.** May 2022.
- Main Johnson, Leslie, Armstrong, Chelsey, Liu, Hsiao-Lei, **Loiselle, H.,** and Kistler, Logan. Exploring the Relationship of Pacific Crabapple (*Malus Fusca*) and Indigenous Peoples on the Northwest Coast of North America through Phytogeography, Ecology, Ethnography, and Population Genomics. **Paper.** Society for Applied Anthropology. March 2022.
- Loiselle, H.** Investigating the Historical Marine Ecology of Hokkaido, Japan Using Ancient DNA and Stable Isotopes from Archaeological Japanese Sea Lions. U. of Washington Dept. of Anthropology **Graduate Student Colloquium** to present dissertation proposal. 2021.
- Loiselle, H.** Hunted or Scavenged?: Investigating Acquisition of Dolphins and Porpoises at the Par-Tee Site Using Zooarchaeology and Ancient DNA Identifications. **Paper.** 84<sup>th</sup> Society for American Archaeology Annual Meeting, Albuquerque, New Mexico, April 2019.
- Kistler, L., S.Y. Maezumi, J.Gd. Souza, N. Przelomska, F.M. Costa, O. Smith, **H. Loiselle**, J. Ramos-Madrigal, N. Wales, E.R. Ribeiro, R.R. Morrison, C. Grimaldo, A.P. Prous, M.T.P. Gilbert, F. de

- Oliveira Freitas, R.G. Allaby. The Independent Legacy of Maize Evolution in South America. **Paper**. International Symposium for Biomolecular Archaeology, Jena, Germany, September 2018.
- Perez, E., T. Banghart, **H. Loisel**, and K. Gibbons. At the Intersection of Academia and Activism: Using the Historical Ecology Framework Toward the Conservation and Restoration of Natural and Cultural Heritage. **Paper** presented at 83<sup>rd</sup> Society for American Archaeology Annual Meeting, Washington D.C. 2018.
- Loisel, Hope**. The Historical Ecology of Dolphins and Porpoises off the Oregon and Pacific Northwest Coasts: Contributions from Zooarchaeology. **Poster** presented at 83<sup>rd</sup> Society for American Archaeology Annual Meeting, Washington D.C. 2018.
- Loisel, Hope**. Archaeology with ‘porpoise’: studying pre-historic small cetacean exploitation at Seaside, Oregon through zooarchaeological analysis. **Poster** presented at University of Maryland Undergraduate Research Day, College Park, Maryland. 2017.
- Loisel, Hope** and Rachel Miller. The bishop’s cellar: archaeological faunal analysis from Skalholt, Iceland. **Poster** presented at University of Maryland Undergraduate Research Day, College Park, Maryland. 2017.

### Guest Lectures and Invited Talks

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- 2023 **Loisel, Hope**. *Ancient DNA and Archaeology*. Guest lecture for SUNY Cortland, March 29.
- 2022 **Loisel, Hope**. *Ancient DNA and Archaeology*. Guest lecture for SUNY Cortland, November 4.
- 2019 **Loisel, Hope**. *Neanderthals and Denisovans: Using Ancient DNA to Understand Archaic Hominins*. Invited guest lecture for ARCHY105 The Human Past, U of Washington, October 17.
- 2019 **Loisel, Hope**. *Archaeogenomics: Using ancient DNA to investigate archaeological questions*. Invited guest lecture for ARCHY205 Introduction to Archaeology, U of Washington, March 1.
- 2018 **Loisel, Hope**. *Archaeology with ‘Porpoise’*. Invited talk at Laboratories of Analytical Biology Weekly Meeting. Smithsonian NMNH. June 18.

### Awards, Scholarships, and Travel Grants (\$50,961)

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- U. Washington Dept. of Anthropology Yeager Award for Scholarly Excellence (\$1000 USD)
- U. Washington Summer Institute in Statistical Genetics Scholarship, 2020 (\$900 USD)
- International Council for the Exploration of the Sea Travel Grant (€980 EUR, cancelled for COVID-19)
- U. Washington GO-MAP Graduate Opportunity Program Research Assistantship Award (\$22,644 USD)
- Smithsonian Minority Awards Program, 2017 (\$6000 USD)
- SAA Historically Underrepresented Groups Field School Scholarship, 2017 (\$3000 USD)
- Society of Ethnobiology Undergraduate Award, 2017 (\$250 USD)
- University of Maryland Summer Scholars 2017 Award (\$3000 USD)
- Bamfield Marine Sciences Centre Scholarship for Field School, 2017 (\$500 CAD)
- College of Behavioral & Social Sciences Goldstein Scholarship, UMD, 2017 (\$1500 USD)
- Education New Zealand Travel Award, 2016 (\$2200 USD)
- Dean’s Scholarship at the University of Maryland, 2014-2016 (\$9000 USD)

## Workshops and Trainings

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IsoCamp (2 week Stable Isotope Ecology Short-Course, University of New Mexico), Aug. 2021  
Summer Institute in Statistical Genetics (University of Washington), July 2020

## Archaeological & Anthropological Lab and Field Experience

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Old Harbor Archaeological History Project, Kodiak Archipelago, Alaska, Aug. 2018- Sep. 2018  
Intern, Smithsonian Institution, National Museum of Natural History, Nov. 2016- Jul. 2018  
Historical Ecology and Coastal Archaeology Field School, Vancouver Island, Jul. 2017- Aug. 2017  
Intern, University of Maryland Zooarchaeology Lab, Sep. 2015- Oct. 2017  
Intern, U. Penn Molecular Anth. Lab and Nat. Geo. Genographic Project, May 2017- Jun. 2017  
Volunteer, University of Auckland Archaeological Science Lab, Jul. 2016- Oct. 2016  
Environmental Archaeology Field Technician, Belle Isle State Park, VA, Jun. 2016  
Intern, UMD Knowledge, Response, & Adaptation for Env. Change Lab, Sep. 2015- Dec. 2015  
Volunteer, UMD Archaeology in Annapolis Lab, Feb. 2015- May 2015

## Teaching Experience

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Teaching Assistant: University of Washington

ARCHY480: Advanced Archaeological Analysis: Ceramics, Autumn 2022

Teaching Assistant: University of Maryland

ANTH222: Introduction to Ecological and Evolutionary Anthropology, Spring 2016, Winter 2017

ANTH240: Introduction to Archaeology, Spring 2017

ANTH341: Introduction to Zooarchaeology, Spring 2017

## Other Employment

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Reader for Undergraduate Admissions, University of Washington (2021, 2022)

## Professional Service

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Quaternary Research Center, University of Washington, Affiliate Member (2018- present)

SAA Historical Ecology Interest Group Co-Founder and Organizer (April 2018- present)

UW Department of Anthropology, Archaeology Graduate Student Representative (Sept. 2020 – 2021)

University of Washington Department of Anthropology Curriculum Committee (Oct. 2018- June 2019)

Society of Ethnobiology, Student Advisor to the Board (May 2017 – May 2018)

## Professional Society Memberships

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International Council for Archaeozoology

Society for American Archaeology

Oceans Past Initiative

## Volunteer Positions

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Habitat Interpreter, Seattle Aquarium (October 2022 – present)  
Beach Naturalist, Seattle Aquarium (March 2023 – present)

## Selected Volunteering and Outreach Events

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2022	Archaeology Day, Zooarchaeology Table, Burke Museum
2019	Climate Change Day, Pacific Science Center, Archaeology and Climate Change Station
2018	Maryland Day, University of Maryland, Zooarchaeology station
2017	Community Archaeology Day, August 10 <sup>th</sup> , 2017, Bamfield Marine Sciences Center Maryland Day, University of Maryland, Zooarchaeology station Anthropology Day, February 16 <sup>th</sup> , 2017
2016	Courses and Careers Day, University of Auckland, Archaeology station Anthropology Day, February 18 <sup>th</sup> , 2016 Maryland Day, University of Maryland, Environmental Science and Policy station
2015	Maryland Day, University of Maryland, Archaeology in Annapolis station

## Other Certifications

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SCUBA Certified (Open Water, SSI), 2016