LAUREL G. LARSEN
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EDUCATION

Ph.D. 2008 Civil, Environmental, and Architectural Engineering, University of Colorado
Hydroecological Feedback Processes Governing Landscape Self-Organization in the Florida Everglades

M.A. 2003 Earth and Planetary Sciences, Washington University in St. Louis
Development and Testing of a Coupled Heat and Moisture Transfer Model to Assess Subsurface Moisture Gradients

B.S. 2003 Systems Science and Mathematics; Environmental Studies, Washington University in St. Louis, *Summa Cum Laude*

PROFESSIONAL APPOINTMENTS

Senior Lecturer (Associate Professor), Department of Earth and Environmental Science, Uppsala Universitet, 8/1/2025 -
Associate Professor (with tenure), Geography (primary) and Civil and Environmental Engineering, University of California, Berkeley, 7/2018-6/30/2025
Delta Lead Scientist, US Geological Survey (housed within Delta Stewardship Council), Sacramento, CA, 9/2020-11/2023
Assistant Professor, Department of Geography, University of California, Berkeley, 2013-2018
Affiliate, Center for Watershed Sciences, University of California, Davis, 2024-present
Affiliate, Energy Resources Group, University of California, Berkeley, 2013-2025
Affiliate, Center for Information Technology Research in the Interest of Society (CITRIS), University of California, Berkeley, 2017-2025
Senior Fellow, Berkeley Institute for Data Sciences, University of California, Berkeley, 5/2015-2025
Faculty Research Ecologist, USGS National Research Program, Reston, VA 1/2013-12/2016
Research Ecologist, USGS National Research Program, Reston, VA, 11/2009-12/2012
Adjunct Assistant Professor, Department of Geology, University of Maryland, 1/2011-2012
Affiliate Scientist, National Center for Earth-Surface Dynamics, 3/2010-2017
Research Hydrologist, USGS National Research Program, Reston, VA, 7/2008-11/2009

SELECTED HONORS AND RECOGNITION

2020, Fulbright-Saastamoinen Fellow in Environmental Science, University of Eastern Finland
2019, Fellow, Geological Society of America
2018, Donath Medal (Young Scientist Award), Geological Society of America
2015, Hellman Faculty Fellow award, UC Berkeley
2015, NSF CAREER award
2013, Kohout Early Career Award, Geological Society of America Hydrogeology Division
2009, USGS STAR (Science to Achieve Results) Achievement Award
2008, Best Dissertation Award, University of Colorado, Engineering and Applied Science
2003-2008, Hertz Foundation Fellow and NSF Graduate Research Fellow
2003, Midwestern Association of Graduate Schools Outstanding Masters Thesis Award

PUBLICATION STATISTICS

67 published journal papers and book chapters, ORCID: 0000-0001-7057-5377
4003 citations (Source: Google Scholar, accessed 5/27/2005)
h-index: 36 (Source: Google Scholar, accessed 5/27/2025)
i10 index: 52 (Source: Google Scholar, accessed 5/27/2025)

RESEARCH GRANTS AND PROPOSALS

Active grant funding:

Flood Hazard Mitigation through Deep Learning Streamflow and Snow Water Equivalent Forecasts. United States Army Corps of Engineers ($99,981 to L Larsen), 2024-2025.

Ecogeomorphic Mapping of the Okavango Delta using LiDAR. United States Army Corps of Engineers contract ($370,707 to L Larsen), 2024-2025.

Just Transitions in Large Socioecological Systems: Drought, Sea-level Rise & Salinity in the Delta. University of California Multicampus Research Proposal Initiative ($2,500,000 to 4 campuses; I wrote the proposal as Delta Lead Scientist and submitted it via Holly Doremus), 2023-2027.

COEQWAL: Equitable Stewardship of California's Water in a Changing Climate. University of California Climate Action Research Program ($8,200,000 to 6 campuses; I conceptualized the project, assembled the team with Ted Grantham as PI, and served as one of the lead authors on the proposal as Delta Lead Scientist), 2023-2025.

Completed funding since 2017:

Collaborative Research: EarthCube Data Capabilities: Jupyter meets the Earth: Enabling discovery in geoscience through interactive computing at scale, NSF-EAR 1928374 ($1,712,604) Berkeley PIs: Fernando Perez, Laurel Larsen, 2019-2023

Resolving environmental complexity through data-driven induction, Gordon and Betty Moore Foundation, GMBF-4555 ($1,850,000), 2014-2023

Restoration Hydro: A watershed approach to standard modular hydropower, DOE grant to Natel Energy (FOA-001836, Berkeley subcontract: $166,019), 2019-2022

Spatiotemporal investigation of reef resilience in the Pacific Ocean in the 2014-2017 bleaching event and its significance for Pacific fisheries, NASA 80NSSC19K137 ($135,000), 2019-2022

USGS Powell Center Synthesis Project: Improved hydrologic forecasting through synthesis of critical storage components and timescales across watersheds worldwide, PIs: Laurel Larsen, Judson Harvey (USGS), Jessica Driscoll (USGS), David Gochis (NCAR), 2018-2022

CAREER: The role of organic particulates in controlling the growth of river deltas: a field, experimental, and numerical modeling study, NSF-EAR 1455362 ($705,539), 2015-2020

New regionally calibrated high-resolution land cover datasets for the West African Sahel, NASA award 18-NUP2018-0056 ($71,752, with Mollie van Gordon), 2018-2019

Machine learning and information-entropy methods using remote sensing data for understanding hydrological dynamics in a coupled human-natural system: The Niger River Basin, NASA award 03892220992 ($100,483, with Mollie van Gordon), 2015-2019

TEACHING AND RESEARCH BREAKS

Maternity leave: July-December 2019
Leave to serve as Delta Lead Scientist: September 2020-November 2023

TEACHING

Courses (200 level is graduate, 100 level is upper-division undergraduate)

Geog 279: Multivariate Statistics and Data Analysis for Research, Spr 2015, Fall 2017. Designed and taught by L. Larsen in full

Geog 259: Post-normal science: Theory and methods for advancing equitable, defensible decision-making in complex social-ecological systems, Spr 2024, Spr 2025. Designed and taught by L. Larsen in full

Geog 257: Interdisciplinary Research Methods: Environment, Society, and Global Change, Fall 2016, 2017, 2018, 2019: Co-designed and taught by L. Larsen and two other faculty.

Geog 244: Complex Environmental Systems, Spr 2013, 2014, 2016: Designed and taught by L. Larsen in full.

Geog c136: Terrestrial Hydrology, Spr 2014, 2015, 2017, 2019: Designed and taught by L. Larsen in full.

Geog c135: Water Resources and the Environment, Spr 2016, 2018, Fall 2024: Designed and taught by L. Larsen in full.

Geog 40: Introduction to Earth Systems Science, Fall 2014, 2015, 2016, Spr 2018, Fall 2024: Adapted by L. Larsen from previous offering, taught by L. Larsen in full.

STUDENT ADVISING

Advisees at UC Berkeley since 2013 (note: Berkeley Geography has no MS program)

Postdoctoral scholars: 9
Ph.D students (primary adviser): 9
M.S. students advised (CEE students and visiting scholar from TU Munich): 3
Committee member: 33
External institution “opponent”: 4
Undergraduate honors thesis advisor: 9
Undergraduate research advisor (non-thesis): 46

SELECT RECENT PROFESSIONAL SERVICE

2020-2023	Editorial Board State of Bay-Delta Science
2024-present	Associate Editor, San Francisco Estuary and Watershed Science
2024-present	USGS Powell Center working group, Synchrony in the Critical Zone
2023	Steering Committee, California Water Data Consortium
2022-2024	Young Scientist Award (Donath Medal) Committee, GSA
2021-present	Critical Zone Collaborative Network Hub Advisory Committee
2017-2018	Chair, Langbein Lecture Committee, Hydrology Division, AGU
2024	Review board, California Environmental Protection Agency, Scientific Basis of Proposed Revisions to the Total Maximum Daily Load of Methylmercury to the Sacramento-San Joaquin Delta Estuary.
2018-2019	Committee for Data Science minor, UC Berkeley
2017-2018	Committee for Data Science major, UC Berkeley