
Edmund (Ned) B. Molder
PhD Student, Environment and Resources
Nelson Institute for Environmental Studies
University of Wisconsin, Madison

EDUCATION

University of Wisconsin, Madison Sept. 2020 – June 2025 (anticipated)
Ph.D., Environment and Resources
Nelson Institute for Environmental Studies

Advisor: Morgan Robertson, Dept. of Geography
Research Foci: Deep ocean resource extraction, political ecology of renewable energy, science and technology studies, history of science, environmental governance
Minors: Geography, Science and Technology Studies

Colorado State University Aug. 2017- Dec. 2019
M.A. Anthropology and Geography
Humans and the Environment track

Master's Thesis: "Innovation, Institutions, and the Importance of Large Land Parcels: Drivers of Urban Expansion in San Diego, CA, 1986-2017", advised by Dr. Stephen J. Leisz

University of Oregon Sep. 2009- Aug. 2013
B.S. Geological Sciences
Environmental Geosciences track

PUBLICATIONS

Peer-reviewed

Molder, E. B., Schenkein, S. F., McConnell, A. E., Benedict, K. K., & Straub, C. L. (2022). Landsat Data Ecosystem Case Study: Actor Perceptions of the Use and Value of Landsat. *Frontiers in Environmental Science*, 724. (first authorship shared with Sarah Schenkhein)

Molder, Edmund B. (2021). "Alces alces absonus". *becoming-Feral*. J. Armstrong, A. Lakind, C. Adsit-Morris, and R. Saeter (eds.). Objet-a Creative Studio.

Molder, Ned and Laituri, Melinda (2020). The Hydro-Social Cycle of an Extreme City: Tijuana, Mexico. *Colorado Water*, 37(1): 11-14.

Reports

Browne, Katherine E. with Sarvis Anarella, Maizie Anders, Michelle Anderson, Shadi Azadegan, Charlotte Dorsey, Frances Fedele, Amanda Kircher, Althaea Kress, **Ned Molder**, Zoe Schutte, Elizabeth Shrewsbury, Julie Spawn, Madeline Stott, Sydney Vander Waerdt, and John Weinzell (2020). "Rockport Residents and Life After Harvey: Results from the 2019 Colorado State University Ethnographic Field School".

Steblein, P.F., Loehman, R.A., Miller, M.P., Holomuzki, J.R., Soileau, S.C., Brooks, M.L., Drane-Maury, M., Hamilton, H.M., Kean, J.W., Keeley, J.E., Mason, R.R., Jr., McKerrow, A., Meldrum, J.R., **Molder, E.B.**, Murphy, S.F., Peterson, B., Plumlee, G.S.,

Shinneman, D.J., van Mantgem, P.J., and York, A., (2021). U.S. Geological Survey wildland fire science strategic plan, 2021–26: U.S. Geological Survey Circular 1471, 30 p., <https://doi.org/10.3133/cir1471>.

Other media

Molder, Ned B. and Straub, Crista L. (2020). “Using Landsat and Machine Learning to Map Urban Change”. *USGS Landsat Case Studies*, HDGov. <https://doi.sciencebase.gov/hd/case-study/using-landsat-and-machine-learning-to-map-urban-change>

CONFERENCES, MEETINGS, AND PRESENTATIONS

Society for Social Studies of Science (4S) 2022

Cholula, México – December 7th-10th, 2022

“Following The Research: Extractivist Histories of Marine Science in Deep Seabed Mining” – Session: *STS Engagements with Critical Mineral Studies I*

Graduate Student Brown Bag Talk Series - Nelson Institute for Environmental Studies

Madison, WI – May 5th, 2022

45-minute presentation – “Mapping the Deep Seabed Mining (DSM) Debate in the Cook Islands: A Situational Analysis”

Water@UW-Madison Spring Symposium 2022 - “Reconnecting Around Water”

Madison, WI (virtual) – April 22nd, 2022

Organizer – Planned event, coordinated event logistics with 15 speakers and three different panel presentations, led event promotion effort on social media and email listservs, developed event branding and writing copy, managed webinar registrations, hosted Zoom webinar (sharing slides, dropping links in the chat, spotlighting speakers) with support from Megan Wecker (UW-Extension)

Water@UW-Madison Posters on Ice – 2022 Clean Lakes Alliance Frozen Assets Festival

Madison, WI – February 5th, 2022

Organizer – Created and distributed call for posters, corresponded with poster presenters, coordinated event logistics with Clean Lakes Alliance staff, set up poster display infrastructure, live-tweeted the event

Earth Science Information Partners (ESIP): Winter Meeting 2021

January 26th-29th, 2021

Research Poster – “Expanding the Societal Benefits of Earth Observations through Leading Practices for Public Private Partnerships”

American Geophysical Union (AGU): Winter Meeting 2020

December 7th-11th, 2020

Molder, Edmund B., and Straub, Crista L. “Case Studies of Landsat Users in Machine Learning and AI: Mapping the Benefits of EO Data in a Data Ecosystem” (presenter)

Molder, Edmund B., Preisser, Matthew D., Benedict, Karl K., Shapiro, Carl D., Straub, Crista L., Stryker, Timothy S. “Expanding the Societal Benefits of Earth

Observations through Leading Practices for Public Private Partnerships”
(contributor)

Straub, Crista L., Benedict, Karl K., Glynn, Pierre D., Kuwayama, Yusuke, Bednar, Daniel, **Molder, Edmund B.**, Shapiro, Carl D., Conran, Joseph, Sheth, Kartik, Smart, Alan C. “Economic and societal benefits of Earth observations: Repository design, development, and testing” (contributor)

“Science and Lived Experience: Food, Land, and Water” Storytelling Workshop

November 17th, 2020

Co-organizer – with Jenny Oren, Emily Azevedo-Casey, Stephanie Rockwood, Krista Thompson, Rachel Klicko, Ana Fochesatto, Tierney Bosci, and Adena Rissman

Earth Science Information Partners (ESIP): Summer Meeting 2020

July 14th-24th, 2020

Session co-organizer – “ESIP Public-Private Partnership Cluster”, with Crista Straub, Karl Benedict, Carl Shapiro, Matthew Preisser, and Timothy Stryker

16th GFOI Regional Workshop – How is REDD+ data used for management, policy, and other reporting mechanisms in Latin America?

Fort Collins, CO – January 21st-24th, 2020

Co-organizer – with Crista Straub

Hydrology Days Conference – Colorado State University

Fort Collins, CO - March 27th-29th, 2019

Poster Presentation – “The Hydrosocial Cycle and Extreme Cities”

Brown Bag Lunch Presentation – Geospatial Centroid at Colorado State University

Fort Collins, CO - April 10th, 2019

45-minute presentation – “Urban Expansion in San Diego, CA: Emerging Industry and Cookie-Cutter Housing”

FELLOWSHIPS AND AWARDS

Earth Science Information Partners (ESIP) Community Fellowship - 2020-2021

RELEVANT EXPERIENCE

Graduate Teaching Assistant

Aug. 2020 – Present

University of Wisconsin, Madison

SP23 – Geography 339, Environmental Conservation

FA22 – Geography / Envir. St 139, Global Environmental Issues

FA20 – Anthropology 104, Cultural Anthropology and Human Diversity

Associate Editor

Aug. 2022 – Present

Nelson Issue Brief

Nelson Institute for Environmental Studies, UW-Madison

Grader STS 201, “Where Science Meets Society” Department of Sociology, UW-Madison	Aug. 2022 – Dec. 2022
Graduate Project Assistant Water@UW-Madison University of Wisconsin, Madison	Aug. 2021 – May 2022
Social Scientist U.S. Geological Survey (USGS) FORT Collins Science Center, Fort Collins, CO	Sep. 2019 – July 2021
Graduate Teaching Assistant Department of Anthropology University of Wisconsin, Madison	Sep. 2020 – Dec. 2020
Remote Sensing Research Assistant Department of Anthropology and Geography Colorado State University	Nov. 2019 – May 2020
Graduate Teaching Assistant Ethnographic Field School for Risk and Disaster Colorado State University	Jun. 2019 – Aug. 2019
Graduate Teaching Assistant Department of Anthropology and Geography Colorado State University FA17 – Geography 100, Introduction to Geography SP18 – Geography 100, Introduction to Geography FA18 – Geography 100, Introduction to Geography SP19 – Anthropology 200, Cultures and the Global System	Aug. 2017 – May 2019
Intern Geospatial Centroid Morgan Library, Colorado State University	Sep. 2018 – Aug. 2019
Vice President, Editor in Chief Anthropology Graduate Student Society (AGSS) Colorado State University	Sep. 2018 – May 2019
Co-President, Financial Officer Geospatial Grad Students Club Colorado State University	Sep. 2018 – May 2019
Research Assistant Department of Anthropology and Geography Colorado State University	May – Aug. 2018

Soils Technician

Geocon, Inc.
San Diego, CA

Jul. 2016 – Apr. 2017

Geotech

Groundmetrics, Inc.
San Diego, CA

Aug. 2013 – Dec. 2015

President, Community Outreach Coordinator

University of Oregon Geology Club
University of Oregon

Sep. 2011 – Jun. 2013

PROFESSIONAL ASSOCIATIONS AND WORKING GROUPS

- Society for Social Studies of Science (4S)
- International Commission of the History of Oceanography (ICHO)
- American Association of Geographers (AAG)
- American Geophysical Union (AGU)
- Earth Science Information Partners (ESIP)
- World-Wide Human Geography Data Working Group (WWHGD)
- International Marine Minerals Society (IMMS)

MISCELLANEOUS**Software / Programming Proficiencies**

- QGIS
- ArcGIS
- ENVI
- Python
- R
- SPSS
- Qualtrics
- QSR NVivo
- Audacity
- Ableton Live, Logic Pro
- Adobe Creative Suite
- GIMP
- Microsoft Office Suite
- Zotero, EndNote, Mendeley
- Wordpress
- Google Earth, Earth Engine