

Sierra V. Petersen

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University of Michigan
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Last Updated: 12/04/24

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<https://sites.lsa.umich.edu/Petersen-group/>

EDUCATION

2014 Ph.D. in Earth & Planetary Sciences, Harvard University
2012 M.S. in Earth & Planetary Sciences, Harvard University
2009 B.Sc. *with honors* in Geochemistry, California Institute of Technology (Caltech)

PROFESSIONAL POSITIONS

2024-pres. Associate Professor, Department of Earth & Environmental Sciences,
University of Michigan
2017-2024 Assistant Professor, Department of Earth & Environmental Sciences,
University of Michigan
2016-2017 Postdoctoral Fellow, Department of Earth & Environmental Sciences,
University of Michigan
2014-2016 NSF-OCE Postdoctoral Research Fellow, Department of Earth & Environmental
Sciences, University of Michigan
2009-2014 Graduate Research Assistant/Fellow, Harvard University

ACADEMIC AWARDS, HONORS and FELLOWSHIPS

2023-2028 NSF Faculty Early Career Development (CAREER) Award
2021 Sloan Research Fellowship
2020 University of Michigan nominee, Packard Foundation Fellowship for Science and
Engineering
2019 Elizabeth Caroline Crosby Research Award, University of Michigan
2016 Outstanding Postdoctoral Fellow Award, University of Michigan
2015 Marine Geoscience Leadership Symposium participant
2014-2016 NSF Ocean Sciences Postdoctoral Research Fellowship
2014 NOAA Climate and Global Change Postdoctoral Fellowship (Declined)
2013 Graduate School of Arts and Sciences Merit Fellowship, Harvard University
2009-2010 James Mills Peirce Fellowship, Harvard University
2009 Howard Reynolds Memorial Prize, Caltech
2008 Samuel P and Frances Krown Summer Research Fellow, Caltech
2006 Jim and Karen Cutts Summer Research Fellow, Caltech

PUBLICATIONS

Authorship convention: descending order of intellectual contribution, alphabetical within tiers of contribution for large studies. Authors from Petersen group (SCIPP Lab) noted as follows:

❖ undergraduate student, ● graduate student, ◻ postdoctoral fellow. For studies first-authored by a non-Petersen group member, Petersen group contribution is noted.

Google Scholar Citation Summary as of December 04, 2024: Total Citations = 1838, h-index = 19, i-10 index = 23

Scopus Citation Summary as of December 04, 2024:

Total Citations = 1401, h-index = 16, i-10 index = 21

Scopus Author ID: 56572085200

ORCID: 0000-0002-4498-9776

IN PROGRESS (at a minimum, complete drafts out to coauthors):

42. ●Zhang, J.Z., **S.V. Petersen**, I.Z. Winkelstern, A multi-species, multi-site study of Last Interglacial seasonal temperatures in Bermuda, *in preparation for Paleooceanography and Paleoclimatology*
41. ●Curley, A.N., ❖D.M Lollo, **S.V. Petersen**, Diverse bulk stable isotope and clumped isotope vital effects documented among modern bivalves: Implications for paleoclimatological and paleobiological records, *submitted March 2024 to a special issue of Palaeogeography, Palaeoclimatology, Palaeoecology on sclerochronology.*
40. ●Quizon, A.A., **S.V. Petersen**, N.J. deWinter, J. Vellekoop, Calibrating the dual clumped isotope thermometer (Δ_{47}/Δ_{48}) for marine gastropods, *in preparation for Geochimica Cosmochimica et Acta*

IN REVIEW PIPELINE:

39. Barkan, Y., C. Pramanik, R. Yam, A. Shemesh, **S.V. Petersen**, G. Caro, G. Paris, I. Halevy, Oxygen, sulfur, calcium, and carbonate clumped isotopes in sulfate-bearing calcite and aragonite, *submitted Geochimica Cosmochimica et Acta, Oct 2024*
38. ❖Hoffman, J.J., **S.V. Petersen**, ◻M.M. Jones, Traditional and Clumped Isotope Oyster Sclerochronology: Implications for Sub-annual Temperature and Water Chemistry Variation in the Western Interior Seaway during the Mid-Cretaceous Thermal Maximum, *in revision a special issue of Palaeogeography, Palaeoclimatology, Palaeoecology on sclerochronology, original submission 6/30/24*
37. ●Curley, A.N., **S.V. Petersen**, H. Fricke, J. Gleason, Insights into Climate and Hydrology of the Late Cretaceous Western Interior Basin from Clumped Isotope Paleothermometry and Strontium Isotopes, *in revision Earth and Planetary Science Letters, original submission March 2024*

PUBLISHED (all peer-reviewed):

2024:

- (36.) ●Gomes, L., **S.V. Petersen**, R. Portell, P. Reimersma, Stratigraphy, paleoenvironments and sea level history at Florida Shell Quarry, Charlotte County, FL, *Journal of Sedimentary Research, accepted*

- (35.) Johnson, A.L.A., Bernd R. Schone, **S.V. Petersen**, N.J. de Winter, H.J. Dowsett, J-F Cudennec, E.M. Harper, I.Z. Winkelstern, Molluscan sclerochronology in marine palaeoclimatology: taxa, technique, and timespan issues, *Quaternary Science Reviews*, *accepted*.
- (34.) ❖ Scholz, S.R., **S.V. Petersen**, and B. M. Anderson, Modern reconstructions of mean and seasonal-scale climate from coastal marine gastropods (Turritellidae), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 655, 112553, doi:10.1016/j.palaeo.2024.112553.
- (33.) Fiebig, J., M. Bernecker, N. Meijer, K. Methner, P.T. Staudigel, A.J. Davies, L. Bayarjargal, D. Spahr, B. Winkler, S. Hofmann, M. Granzin, **S.V. Petersen**, Carbonate clumped isotope values compromised by nitrate-derived NO₂ interferent, *Chemical Geology*, 670, 122382, doi:10.1016/j.chemgeo.2024.122382.
- (32.) ● Zhang, J.Z., **S.V. Petersen**, S. Lavis, B. Williams, Quantifying variations in δ¹⁸O_w and salinity in modern Bermudan waters on hourly to monthly timescales, *Frontiers of Marine Science*, 11, 1441113, doi:10.3389/fmars.2024.1441113.
- (31.) Minnebo, L., I.Z. Winkelstern, ● J.Z. Zhang, **S.V. Petersen**, Last Interglacial Coastal Hydroclimate Variability in Bermuda Revealed by Clumped Isotope Oyster Sclerochronology, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 643, 112195, doi:10.1016/j.palaeo.2024.112195.

2023:

- (30.) Kelson, J.R., T.E. Huth, B.H. Passey, N.E. Levin, **S.V. Petersen**, P. Ballato, E.J. Beverly, D. O. Breecker, G.D. Hoke, A.M. Hudson, H. Ji, A. Licht, J. Quade (2023) Triple oxygen isotope compositions of globally distributed soil carbonates reveal widespread evaporation of soil waters, *Geochimica et Cosmochimica Acta*, 355, 138-160, doi:10.1016/j.gca.2023.06.034.
- (29.) Ryan, B.H., J.M. Rivers, **S.V. Petersen**, S.E. Kaczmarek (2023) Clumped isotope evidence for the formation of nonplanar dolomite textures at near-surface temperatures, *Journal of Sedimentary Research*, doi:10.2110/jsr.2022.117.
- (28.) Huntington, K.W. and **S.V. Petersen** (2023) Frontiers of Carbonate Clumped Isotope Thermometry, *Annual Review of Earth and Planetary Sciences*, 51:1, doi:10.1146/annurev-earth-031621-085949.
- * (27.) ● Curley, A.N., **S.V. Petersen**, S.M. Edie, W. Guo (2023) Biologically driven isotopic fractionations in bivalves: paleoenvironmental problem to palaeophysiological proxy, *Biological Reviews*, doi:10.1111/brv.12940.
- * (26.) ● Zhang, J.Z. and **S.V. Petersen** (2023) Clumped and oxygen isotope sclerochronology methods tested in the bivalve *Lucina pensylvanica*, *Chemical Geology*, 620, 121346, doi:10.1016/j.chemgeo.2023.121346.

2022:

- * (25.) ● O’Hora, H.E., **S.V. Petersen**, J. Vellekoop, □ M.M. Jones, ● S.R. Scholz (2022) Clumped isotope-derived climate trends leading up to the end-Cretaceous extinction in northwest Europe, *Climate of the Past*, 18(9), 1963-1982, doi:10.5194/cp-18-1963-2022.
- (24.) Licht, A., □ J.R. Kelson, S. Bergel, A. Schauer, **S.V. Petersen**, A. Capirala, K.W. Huntington, G. Dupont-Nivet, Z. Win, D.W. Aung (2022) Dynamics of pedogenic carbonate growth in the monsoonal tropical domain, *Geochemistry, Geophysics, Geosystems*, 23(7), e2021GC009929, doi:10.1029/2021GC009929.

- * (23.) ☐ Jones, M.M., **S.V. Petersen**, ● A.N. Curley (2022) Peak mid-Cretaceous greenhouse warmth in the Western Interior Seaway of North America, *Geology*, 50 (8), 954-958, doi:10.1130/G49998.1.
- (22.) ☐ Kelson, J.R., **S.V. Petersen**, N. Niemi, B.H. Passey, ● A.N. Curley (2022) Looking upstream with clumped and triple oxygen isotopes of estuarine oyster shells in the early Eocene of Southern California, *Geology*, 50(7), 755-759, doi:10.1130/G49634.1.

2021:

- (21.) ● Zhang, J.Z., **S.V. Petersen**, I.Z. Winkelstern, K.C. Lohmann (2021) Seasonally Variable Aquifer Discharge and Cooler Climate in Bermuda during the Last Interglacial Revealed by Subannual Clumped Isotope Analysis, *Paleoceanography & Paleoclimatology*, 36, e2020PA004145, doi:10.1029/2020PA004145.
- (20.) Bernasconi, S.M., M. Daëron, K.D. Bergmann, M. Bonifacie, A.N. Meckler, H.P. Affek, N. Anderson, D. Bajnai, E. Barkan, E. Beverley, D. Blamart, L. Burgener, D. Calmels, C. Chaduteau, M. Clog, B. Davidheiser-Kroll, A. Davies, F. Dux, J. Eiler, B. Elliot, A.C. Fetrow, J. Fiebig, S. Goldberg, M. Hermoso, K.W. Huntington, E. Hyland, M. Ingalls, M. Jaggi, C.M. John, A.B. Jost, S. Katz, ☐ J.R. Kelson, T. Kluge, I.J. Kocken, A. Laskar, T.J. Leutert, D. Liang, J. Lucarelli, T.J. Mackey, X. Mangenot, N. Meinicke, S.E. Modestou, I.A. Müller, S. Murray, A. Neary, N. Packard, B.H. Passey, E. Pelletier, **S.V. Petersen**, A. Piasecki, A. Schauer, K.E. Snell, P.K. Swart, A. Tripathi, D. Upadhyay, T. Vennemann, I. Winkelstern, D. Yarian, N. Yoshida, N. Zhang, M. Ziegler, (2021) InterCarb: A Community Effort to Improve Interlaboratory Standardization of the Carbonate Clumped Isotope Thermometer Using Carbonate Standards, *Geochemistry, Geophysics, Geosystems*, 22, e2020GC009588, doi:10.1029/2020GC009588.

2020:

- (19.) Tierney, J.E., C.J. Poulsen, I.P. Montanez, T. Bhattacharya, R. Feng, H.L. Ford, B. Honisch, G.N. Inglis, **S.V. Petersen**, N. Sagoo, C.R. Tabor, K. Thirumalai, J. Zhu, N.J. Burls, Y. Godderis, G.L. Foster, B.T. Huber, L.C. Ivany, S.K. Turner, D.J. Lunt, J.C. McElwain, B.J.W. Mills, B.L. Otto-Bleisner, A. Ridgwell, Y.G. Zhang, (2020), Past Climates inform our future, *Science*, v.370 no. 6517, doi:10.1126/science.aay3701.
**Contribution: led writing of 'seasonality' section of paper originating from attended AGCI workshop. In 2nd tier of authorship (Bhattacharya – Zhu), listed alphabetically
- (18.) Mohr, R., T. Tobin, **S.V. Petersen**, A. Dutton, ❖ E. Oliphant (2020) Subannual stable isotope records reveal climate warming and seasonal anoxia associated with two extinction intervals across the Cretaceous-Paleogene boundary on Seymour Island, Antarctica, *Geology*, 48(11), 1131-1136, doi:10.1130/G47758.1.
- (17.) ❖ S. Scholz, **S.V. Petersen**, J. Escobar, C. Jaramillo, A.J.W. Hendy, W.D. Allmon, J.H. Curtis, B.M. Anderson, N. Hoyos, J.C. Restrepo, N. Perez (2020) Isotope Sclerochronology indicates enhanced seasonal precipitation in northern South America (Colombia) during the Mid Miocene Climatic Optimum, *Geology*, 48(7), 668-672, doi:10.1130/G47235.1.
- (16.) Kelson, J., L. Burgener, K. Huntington, G. Hoke, **S.V. Petersen**, D. Breecker, T. Gallagher (2020) A proxy for all seasons? A synthesis of clumped isotope data from Holocene soil carbonates, *Quaternary Science Reviews*, 234, 106259, doi:10.1016/j.quascirev.2020.106259.

2019:

- * (15.) ●Meyer, K.W., **S.V. Petersen**, K.C. Lohmann, J.D. Blum, S.J. Washburn, M.W. Johnson, J.D. Gleason, A.Y. Kurz, I.Z. Winkelstern (2019) End-Cretaceous Mercury Concentrations Reveal Climate Influence of Deccan Traps Large Igneous Province, *Nature Communications*, 10, 5356, doi:10.1038/s41467-019-13366-0.
- (14.) B.J. Linzmeier, A.D. Jacobson, B.B. Sageman, M.T. Hurtgen, M.E. Ankney, **S.V. Petersen**, T.S. Tobin, G.D. Kitch, J. Wang (2019) Calcium isotope evidence for environmental variability before and across the Cretaceous-Paleogene mass extinction, *Geology*, v. 48 (1), 34-38, doi:10.1130/G46431.1.
- * (13.) **Petersen, S.V.**, W.F. Defliese, C. Saenger, M. Daëron, C.M. John, K.W. Huntington, J.R. Kelson, S.M. Bernasconi, A.S. Colman, T. Kluge, G.A. Olack, A.J. Schauer, D. Bajnai, M. Bonifacie, S.F.M Breitenbach, J. Fiebig, A.B. Fernandez, G.A. Henkes, D. Hodell, A. Katz, S. Kele, K.C. Lohmann, B.H. Passey, D.A. Petrizzo, B.E. Rosenheim, A. Tripathi, R. Venturelli, E.D. Young, I.Z. Winkelstern (2019) Effects of improved ¹⁷O Correction on Inter-Laboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineral-Specific Offsets and Temperature Dependence of Acid Digestion Fractionation, *Geochemistry, Geophysics, Geosystems*, 20, 3495–3519, doi:10.1029/2018GC008127.
- 2018:
- (12.) de Winter, N.J., J. Vellekoop, R. Vorselmans, A. Golreihan, J. Soete, **S.V. Petersen**, ●K.W. Meyer, S. Casadio, R.P. Speijer, P. Claeys (2018), An assessment of latest Cretaceous *Pycnodonte vesicularis* (Lamarck, 1806) shells as records for palaeoseasonality: A multi-proxy investigation, *Climate of the Past*, 14, 725-749, doi:10.5194/cp-14-725-2018.
- (11.) ●Meyer, K.W., **S.V. Petersen**, K.C. Lohmann, I.Z. Winkelstern (2018), Climate of the Late Cretaceous North American Gulf and Atlantic Coasts, *Cretaceous Research*, 89, 160-173, doi:10.1016/j.cretres.2018.03.017.
- 2017:
- (10.) Gallagher, T.M., N.D. Sheldon, J.L. Mauk, **S.V. Petersen**, N. Gueneli, J.J. Brocks (2017), Constraining the thermal history of the North American Midcontinent Rift System using carbonate clumped isotopes and organic thermal maturity indices, *Precambrian Research*, 294, 53-66, doi:10.1016/j.precamres.2017.03.022.
- (9.) Bassis, J.N., **S.V. Petersen**, L.M. Cathles (2017), Heinrich events driven by feedback between ocean forcing and glacial isostatic adjustment, *Nature*, 542, 332-334, doi:10.1038/nature21069.
- (8.) Winkelstern, I.Z., M.P. Rowe, K.C. Lohmann, W.F. Defliese, **S.V. Petersen**, A.W. Brewer (2017), Meltwater pulse recorded in Last Interglacial mollusk shells from Bermuda, *Paleoceanography*, 32, 132-145, doi:10.1002/2016PA003014.
- 2016:
- * (7.) **Petersen, S.V.**, C.R. Tabor, K.C. Lohmann, C.J. Poulsen, ●K.W. Meyer, S.J. Carpenter, J.M. Erickson, K.K.S. Matsunaga, S.Y. Smith, N.D. Sheldon (2016c), Salinity and Temperature of the Late Cretaceous Western Interior Seaway, *Geology*, 44, 903-906, doi:10.1130/G38311.1.
- * (6.) **Petersen, S.V.**, A. Dutton, K.C. Lohmann (2016b), End-Cretaceous extinction in Antarctica linked to both Deccan volcanism and meteorite impact via climate change, *Nature Communications*, 7:12079, doi: 10.1038/ncomms12079.

- (5.) **Petersen, S.V.**, I.Z. Winkelstern, K.C Lohmann, ●K.W. Meyer (2016a), The effects of Porapak™ trap temperature on $\delta^{18}\text{O}$, $\delta^{13}\text{C}$, and Δ_{47} in preparing samples for clumped isotope analysis, *Rapid Communications in Mass Spectrometry*, 30, 199-208, doi: 10.1002/rcm.7438.

2015:

- (4.) **Petersen, S.V.** and D.P. Schrag (2015), Antarctic ice growth before and after the Eocene-Oligocene Transition: New estimates from clumped isotope paleothermometry, *Paleoceanography*, 30 (10), 1305-1317, doi: 10.1002/2014PA002769.

2014:

- (3.) **Petersen, S.V.** and D.P. Schrag (2014), Clumped isotope measurements of small carbonate samples using a high-efficiency dual-reservoir technique, *Rapid Communications in Mass Spectrometry*, 28, 2371-2381, doi: 10.1002/rcm.7022.

2013:

- (2.) **Petersen, S.V.**, D.P. Schrag, P.U. Clark (2013), A new mechanism for Dansgaard-Oeschger cycles, *Paleoceanography*, 28, 24-30, doi: 10.1029/2012PA002364.

2011:

- (1.) Chapman, A.D., P.I. Luffi, J.B. Saleeby, **S. Petersen** (2011), Metamorphic evolution, partial melting and rapid exhumation above an ancient flat slab: Insights from the San Emigdio Schist, southern California, *Journal of Metamorphic Geology*, 29: 601-626, doi: 10.1111/j.1525-1314.2011.00932.x.

INVITED TALKS & SEMINARS

2024	Ecological Uniformitarianism 2, Paleontological Association (virtual)
2024	Purdue University, Earth & Planetary Sciences Dept.
2023	GSA Annual Meeting, Pittsburg, PA, session T68
2023	Northwestern University, Earth and Planetary Sciences Dept.
2022	Woods Hole Oceanographic Institute, Paleoclimate Seminar (virtual)
2021	Goldschmidt conference, Lyon, France, session 8n (virtual)
2019	Western Michigan University, Geological and Environmental Sciences Dept.
2019	Aspen Global Change Institute, The Future of Past Climate workshop
2017	University of Colorado – Boulder, Geosciences Dept.
2017	University of Colorado – Boulder, Geography Dept.
2017	University of Colorado – Boulder, Institute of Arctic and Alpine Research (INSTAAR)
2017	Northwestern University, Earth and Planetary Sciences Dept.
2017	University of Michigan, Earth and Environmental Sciences Dept.
2017	Arizona State University, School of Earth and Space Exploration
2017	Michigan State University, Earth and Environmental Sciences Dept.
2017	University of Exeter, Cambourne School of Mines
2017	University of Washington, Earth and Space Sciences Dept., Tectonics/Geomorphology/Climate supergroup seminar

2016 Stony Brook University, Geosciences Dept.
 2016 University of Michigan, Earth and Environmental Sciences Dept.
 2016 University of Florida, Geological Sciences Dept.
 2015 Indiana University-Purdue University-Indianapolis (IUPUI), Earth Science Dept.

TEACHING EXPERIENCE

University of Michigan

Acad. Year	Term	Course	Format	Cred.	Enroll.
2024-2025	WN25	EARTH 222: Intro Oceanography	Lecture	3	~160
	FA24	EARTH 296: Course-Based Research Experience	Lecture + 1 Lab section	3	13
2023-2024	WN24	EARTH 222: Intro Oceanography	Lecture	3	155
	FA23	EARTH 543: Seminar in Paleoclimate	Seminar	1-2	7
2022-2023	WN23	EARTH 222: Intro Oceanography <i>(*newly revised by me as part of the FCI program, lab now managed separately)</i>	Lecture	3	142
	FA22	EARTH 240: Primitive Navigation and Wayfinding in the Natural World	Lecture + 2 lab sections	4	29
2021-2022	FA21	EARTH 240: Primitive Navigation and Wayfinding in the Natural World	Lecture + 2 lab sections	4	31
	FA21	EARTH 543: Seminar in Paleoclimate	Seminar	1-2	6
2019-2020	WN20	EARTH 240: Primitive Navigation and Wayfinding in the Natural World <i>(*new course created by me)</i>	Lecture + 2 lab sections	4	28
	FA19	EARTH 222: Intro Oceanography	Lecture	3	152
	FA19	EARTH 223: Oceanography Lab	4 lab sections	1	53
	FA19	EARTH 543: Seminar in Paleoclimate	Seminar	1-2	8
2019-2020	FA18	EARTH 222: Intro Oceanography	Lecture	3	149
	FA18	EARTH 223: Oceanography Lab	4 lab sections	1	68

Harvard University (teaching fellow)

2011-2012	SPR12	EPS 22: The Fluid Earth	1 lab section		11
	FA11	SPU 26: Primitive Navigation	2 lab sections		27
10-11	SPR11	EPS 8: History of the Earth	1 lab section		12

California Institute of Technology (teaching assistant)

2007-2009	SPR09, SPR 08	GE1: Earth and the Environment	Office hours, course assistance		50-60
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TEACHING HONORS & AWARDS

2024	Nominee, Best Mentor, Undergraduate Research Opportunity Program, University of Michigan
2022-2025	Instructor and faculty lead for EARTH 222, selected for Foundational Course Initiative (co-lead with Teaching Professor Michela Arnaboldi)
2018	Honored Instructor, University of Michigan
2014	Completed “Teaching Certificate Program”, Bok Center for Teaching & Learning, Harvard University
2012-2014	Departmental Teaching Fellow, Earth & Planetary Sciences Dept., Harvard University
2012	White Prize for Excellence in Teaching, Harvard University (for SPU 26)
2011	Certificate for Distinction in Teaching, Harvard University (for EPS 8)

TEACHING & DEI WORKSHOPS AND RELATED ACTIVITIES

University of Michigan

INSTRUCTOR-TO-INSTRUCTOR LEARNING

2024	Guest speaker, CRLT Large Course Initiative
2022-2025	Instructor and faculty lead for EARTH 222 revamp via the Foundational Course Initiative (co-lead with lecturer, Dr. Michela Arnaboldi)
2023	Member, Classroom In the Round Learning Community
2022-pres.	Member, Foundational Course Initiative Learning Community
2022-2024	Member, Earth & Environmental Sciences Department Teaching Circle/Reading group
2021	Panelist, LSA Teaching Academy
2018	Guest lecturer, Science Journalism course, University of Michigan
2018-2019	Participant, LSA Teaching Academy (including 2 in-class observations)

CENTER FOR RESEARCH ON LEARNING AND TEACHING WORKSHOPS ATTENDED

2024	STRIDE training refresher, Advance Office
2023	STRIDE training, Advance Office
2022	Begin with a Problem: Using Inductive Learning to Engage STEM students
2021	Large Course Initiative (workshop series)
2021	Anti-Racism Pedagogy Workshop with Dr. Whitney Peoples
2021	Shoulda, Woulda, Coulda: Moving Beyond Failure and Actively Cultivating A More Equitable Academy
2020	It’s in the Syllabus and Other First Generation College Student Experiences
2019	Moving the Needle: Shifting the Conversation around Sexual Harassment
2019	Distress Signals: Supporting Students Facing Mental Health Challenges
2018	CUTS: Responding to Student Climate Concerns
2018	What can we do to support Underrepresented Students and Colleagues in STEM?
2015	No Offense

Harvard University

INSTRUCTOR-TO-INSTRUCTOR LEARNING

- 2014 Designed and executed new TA training, and developed a 5-part workshop series
2013 Designed and executed TA workshop on “How to write good homework and exam questions”
2012-2014 Conducted mid-semester observations and surveys for all first-time TAs, and mid-semester course surveys for many EPS courses/faculty

BOK CENTER FOR TEACHING AND LEARNING WORKSHOPS ATTENDED

- 2014 What are my students learning? Assessment workshop
2012 Problems with the Blackboard: Tools for Teaching Science and Math

STUDENT MENTORING

Name **Years** (*fellowships awarded and/or subsequent and current positions)

PHD STUDENTS:

6. Adrianna Brown 2023-pres. *Dept. fellowship, GRFP hon. men.
5. Lucas Gomes 2021-pres. *Rackham Merit Fellow
4. Alex Quizon 2021-pres. *Dept. fellowship, GRFP winner
3. Allison Curley 2019-2024 *Dept. fellowship, GRFP hon. men., Smithsonian pre-doc fellow
2. Jade Zhang PhD 2023 *Rackham Merit Fellow, GRFP winner
1. Kyle Meyer PhD 2018 (co-supervisor, lead supervisor = K. Lohmann)
*postdoc at Portland State Univ., now scientist at Fungi Perfecti LLC

MASTERS STUDENTS:

3. Erin Kim 2024-pres. *Dept. fellowship
2. Heidi O’Hora MS 2021 *grants administrator at UT Austin
1. Serena Scholz MS 2020 (CUGS program, 19-20) *PhD program at Yale University

POSTDOCTORAL FELLOWS:

3. Jade Zhang 2023 *now Research Hydrologist at USGS
2. Matt Jones 2019-2021 *Buck Postdoc at Smithsonian, now Research Geologist at USGS
1. Julia Kelson 2019-2021 (lead supervisor, co-supervisors N. Levin, B. Passey)
*NSF-PRF, now faculty at Indiana University

UNDERGRADUATE STUDENTS:

22. Kailey Koshorek 2023-pres.
21. Jon Portinga 2023-pres.
20. Yunhan Fang 2023-pres. (UROP 23-24)
19. Alexandra Curley 2023-pres. (UROP 23-24)
18. Eric Waters 2022-pres. (UROP 22-23, planned senior thesis Apr 25)
17. Cecilie Phillips 2021-pres. (UROP 21-22, planned senior thesis Apr 25)
16. Daniel Wilson 2023-2024
15. Samantha Davies 2021-2024 (UROP 21-22, senior thesis Apr 24)
14. Darya Lollo 2022-2023 (senior thesis Dec 23)

13. Benjamin Woodmansee 2022-2023 (UROP 22-23)
12. Sabrina Lanker 2021-2022 (UROP 21-22)
11. Manmeet Singh 2021-2022 (UROP 21-22)
10. Jon Hoffman 2019-2021 (senior thesis Dec 21) **PhD program at AMNH*
9. Elise Pelletier 2021
8. Ziwei Xiang 2019-2020
7. Steve Wedel 2018-2020 (senior thesis Apr 20) **MS program at UT Austin*
6. Tianna Kilgore 2018-2019 (UROP 18-19)
5. Rebecca Heaman 2018-2020 (UROP 18-19)
4. Serena Scholz 2016-2019 (UROP 16-17) **MS at UM through CUGS program*
3. Elizabeth Oliphant 2016-2018 (senior thesis Apr 18) **Fulbright in Indonesia, MS at Oxford*
2. Hector Ochoa 2015 (UROP Summer Community College program)
1. Florence Chen 2013-2014 (Harvard University)

DEPARTMENT SERVICE

- | | |
|------------|---|
| 2024-pres. | Department Executive Committee |
| 2024-pres. | Graduate Affairs Committee |
| 2024-2025 | Faculty Search Committee, Open search Asst. Professor position |
| 2022-pres. | Michigan Geophysical Union (MGU) Faculty Coordinator |
| 2023-2024 | Faculty Search Committee, Paleontology Asst. Curator/Professor position |
| 2023-2024 | Safety Officer |
| 2019-2024 | Laboratory Committee (chair, 2022-2024) |
| 2017-2021 | Turner Student Award Committee |
| 2018-2020 | Alumni newsletter/media Committee (website redesign) |

UNIVERSITY SERVICE

- | | |
|-----------|---|
| 2024 | Panelist, LSA CAREER grant panel |
| 2023 | Panelist, Foundation Relations info session on Sloan Fellowship |
| 2020-2021 | SACUA Faculty COVID council, advising President/Provost |

COMMUNITY OUTREACH ACTIVITIES

- | | |
|------------|---|
| 2024 | Interactive science activity presenter, Scientist Spotlight event, University of Michigan Museum of Natural History |
| 2024 | Interactive science activity presenter, Washtenaw Elementary Science Olympiad |
| 2024 | Participant, Science Communication Fellows program, University of Michigan Museum of Natural History |
| 2022-pres. | “Science Mom” on ScienceMoms.com, talking about climate change and clean energy to moderate moms in swing states |

- 2021-pres. Science activity organizer, Apple Blossoms Nature School (map making activity, 2022, fossils in the classroom, 2021, 2022), Ann Arbor, MI
- 2014, 2019 Activity leader, University of Michigan FEMMES (Females Excelling More in Math, Engineering, and the Sciences) Capstone event, University of Michigan
- 2015-2017 Science Fair judge and project mentor, Pioneer High School, Ann Arbor, MI
- 2015-2016 Science Judge, National Ocean Sciences Bowl, Michigan
- 2012 Scientist in the classroom, Samuel Adams Webster Elementary School (3rd grade), Boston, MA