Marissa M. Tremblay

Purdue University | Department of Earth, Atmospheric, and Planetary Sciences 550 Stadium Mall Drive, West Lafayette, IN, 47907, USA tremblam@purdue.edu | 765-494-1255 https://www.eaps.purdue.edu/thermochronology

EDUCATION

University of California, Berkeley (UC Berkeley) Ph.D., Earth and Planetary Science (EPS)	2012	2–2017
Advisor: David L. Shuster Barnard College of Columbia University B.A. Environmental Science, <i>summa cum laude</i>	2008	3–2012
PROFESSIONAL APPOINTMENTS		
Assistant Professor, Purdue University Department of Earth, Atmospheric, and Planetary Sciences (EAPS)	2019–ր	oresent
Honorary Assistant Professor, University of Wisconsin-Madison	2022–բ	oresent
Department of Geoscience Newton International Fellow of the Royal Society Scottish Universities Environmental Research Centre (SUERC) Mentor: Darren Mark	2018	3–2019
University of California President's Postdoctoral Fellow University of California, Davis Mentor: Sujoy Mukhopadhyay		2017
Research & Teaching Assistant, UC Berkeley	2012	2–2017
HONORS AND AWARDS		
Antarctica Service Medal Sloan Research Fellowship, Alfred P. Sloan Foundation Marion Milligan Mason Award for Women in the Chemical Sciences, American Associat Advancement of Science Doris M. Curtis Outstanding Woman in Science Award, Geological Society of America Citation for Excellence in Refereeing, American Geophysical Union Charles & Nancy Naeser Prize, Intl. Standing Committee on Thermochronology Marie Skłodowska-Curie Individual Fellowship (declined) The Royal Society Newton International Fellowship University of California President's Postdoctoral Fellowship Lamont-Doherty Earth Observatory Postdoctoral Fellowship (declined) Louderback Award, UC Berkeley EPS National Science Foundation Graduate Research Fellowship Outstanding Graduate Student Mentor, NERDS program, UC Berkeley Richards Family Graduate Fellowship, UC Berkeley Departmental Honors, Barnard College Environmental Science Distinction, Senior Thesis, Barnard College Environmental Science Phi Beta Kappa Barry M. Goldwater Scholarship National Oceanic and Atmospheric Administration Ernest F. Hollings Scholar	on for the	2023 2022 2020 2018 2018 2018 2017 2017 2017 2015 2014 2013 2012 2012 2012 2011 2011 2011

PUBLICATIONS (^G = graduate student supervised; ^U= undergraduate student supervised; P = postdoc supervised)

Peer-reviewed

25. Fink, J.^G, **Tremblay, M.M.**, Tobin, T.S., Stockli, L.D., Stockli, D.F., and Ickert, R.B., 2024, Diagenesis of fossil gar fish scales with implications for geochronology and paleoenvironmental applications. *Geochimica et Cosmochimica Acta*. doi: 10.1016/j.gca.2024.03.004

- 24. Colleps, C.L., van der Beek, P.A., Amalberti, J., Denker, A., **Tremblay, M.M.**, Hajdas, W., Bernard, M., Dittwald, A.H., and Bundesmann, J., 2024, Improving the accessibility and efficiency of proton irradiations for ⁴He/³He thermochronology. *Geochemistry, Geophysics, Geosystems*, v. 25(2), e2023GC011334. doi: 10.1029/2023GC011334
- 23. Guralnik, B., Tremblay, M.M., Phillips, M., Sellwood, E.L., Gribenski, N., Presl, R., Haberkorn, A., Sohbati, R., Shuster, D.L., Valla, P., Jain, M., Schindler, K., Hippe, K., and Wallinga, J., 2024, Three centuries of snowpack decline at an Alpine pass revealed by cosmogenic paleothermometry and luminescence photochronometry. *Geophysical Research Letters*, v. 51, e2023GL107385. doi: 10.1029/2023GL107385
- 22. Gribenski, N., **Tremblay, M.M.**, Valla, P.G., Guralnik, B., Balco, G., and Shuster, D.L., 2022, Cosmogenic ³He paleothermometry on post-LGM glacial bedrock within the central European Alps. *Geochronology*, v. 4, p. 641-663. doi: 10.5194/gchron-4-641-2022.
- 21. O'Brien, A.C., Hallis, L.J., Regnault, C., Morrison, D., Blackburn, G., Steele, A., Daly, L., Tait, A., **Tremblay, M.M.**, Telenko, D., Gunn, G., McKay, E., Maria, N., Salik, M.A., Ascough, P., Toney, J., Griffin, S., Whitfield, P., and Lee, M., 2022, Using Organic Contaminants to Constrain the Terrestrial Journey of the Martian Meteorite Lafayette. *Astrobiology*, v. 22(11), doi:10.1089/ast.2021.0180
- 20. van Zalinge, M.E., Mark, D.F., Sparks, R.S.J., **Tremblay, M.M.**, Keller, C.B., Cooper, F.J., and Rust, A., 2022, Timescales for pluton growth, magma chamber formation and super-eruptions. *Nature*, v. 608, p. 87-92. doi:10.1038/s41586-022-04921-9
- 19. Dai, J., Fox, M., Han, X., **Tremblay, M.M.**, Xu, S., Liu, B., Li, H., Shuster, D.L., and Wang, C., 2021, Two stages of accelerated exhumation in the middle reach of the Yarlung River, southern Tibet since the mid-Miocene. *Tectonics*, v. 40, e2020TC006618. doi:10.1029/2020TC006618
- 18. Domingos, R., **Tremblay, M.M.**, Militzer, B., and Shuster, D.L., 2020, Simulations and experiments reveal effect of nanopores on helium diffusion in quartz. *ACS Earth and Space Chemistry*, v. 4(11), p. 1906-1912. doi:10.1021/acsearthspacechem.0c00187
- 17. Carter, J.N.^G, Ickert, R.B., Mark, D.F., **Tremblay, M.M.**, Cresswell, A., and Sanderson, D.C.W., 2020, Production of ⁴⁰Ar by an overlooked mode of ⁴⁰K decay with implications for K-Ar geochronology. *Geochronology*, v. 2, p. 355-365. doi:10.5194/gchron-2-355-2020
- 16. **Tremblay, M.M.**, and Cassata, W.S., 2020, Noble gas thermochronology of extraterrestrial materials. *Elements*, v. 16(5), p.331-336. doi:10.2138/gselements.16.5.331
- 15. Zeitler, P.K., and **Tremblay, M.M.**, 2020, Measuring noble gases for thermochronology. *Elements*, v. 16(5), p. 343-344. doi:10.2138/gselements.16.5.343
- 14. Carter, J.N.^G, **Tremblay, M.M.**, and Mark, D.F., 2020, A Bayesian approach to the deconvolution of ⁴⁰Ar/³⁹Ar data from mineral mixtures. *Chemical Geology*, v. 554, 119784. doi:10.1016/j.chemgeo.2020.119784
- Park, Y., Swanson-Hysell, N.L., MacLennan, S.A., Maloof, A.C., Gebreslassie, M., Tremblay, M.M., Schoene, B., Alene, M., Antilla, E.S.C., Tesema, T., and Haileab, B., 2020, The lead-up to the Sturtian Snowball Earth: Neoproterozoic chemostratigraphy time-calibrated by the Tambien Group of Ethiopia. *Geological Society of America Bulletin*, v. 132(5-6), p. 1119-1149. doi:10.1130/B35178.1
- 12. **Tremblay, M.M.**, Shuster, D.L., Spagnolo, M., Renssen, H., and Ribolini, A., 2019, Temperatures recorded by cosmogenic noble gases since the last glacial maximum in the Maritime Alps: Quaternary Research, v. 91(2), p. 829-847. doi:10.1017/qua.2018.109
- 11. Dygert, N., Jackson, C.R.M., Hesse, M.A., **Tremblay, M.M.**, Shuster, D.L., and Gu, J.T., 2018, Plate tectonic cycling modulates Earth's ³He/²²Ne ratio. *Earth and Planetary Science Letters*, v. 498, p. 309-321. doi:10.1016/j.epsl.2018.06.044
- Ingalls, M., Rowley, D., Olack, G., Currie, B., Li, S., Schmidt, J., Tremblay, M., Shuster, D.L., Lin, D., and Colman, A., 2018, Paleocene to Pliocene low-latitude high elevation of southern Tibet: Implications for tectonic models of India-Asia collision, Cenozoic climate, and geochemical weathering. *Geological Society of America Bulletin*, v. 130(1-2), p. 307-330. doi:10.1130/B31723.1
- 9. **Tremblay, M.M.**, Shuster, D.L., Balco, G., and Cassata, W.S., 2017, Neon diffusion kinetics and implications for cosmogenic neon paleothermometry in feldspars. *Geochimica et Cosmochimica Acta*, v. 205, p. 14-30. doi:10.1016/j.gca.2017.02.013

- 8. Garrick-Bethell, I., Weiss, B.P., Shuster, D.L., Tikoo, S.M., and **Tremblay, M.M.**, 2017, Further evidence for early lunar magnetism from troctolite 76535. *Journal of Geophysical Research: Planets*, v. 122(1), p. 76-93. doi:10.1002/2016JE005154
- 7. Schmidt, J.L., Zeitler, P.K., Pazzaglia, F.J., **Tremblay, M.M.**, Shuster, D.L., and Fox, M., 2015, Knickpoint evolution on the Yarlung Tsangpo, southern Tibet: Evidence for a regional late Cenozoic base level adjustment. *Earth and Planetary Science Letters*, v. 430, p. 448-457. doi:10.1016/j.epsl.2015.08.041
- 6. **Tremblay, M.M.**, Fox, M., Schmidt, J.L., Tripathy-Lang, A., Wielicki, M.M., Harrison, T.M., Zeitler, P.K., and Shuster, D.L., 2015, Erosion in southern Tibet shut down at 10 Ma due to enhanced rock uplift within the Himalaya. *Proceedings of the National Academy of Sciences*, v. 112(39), p. 12030-12035. doi:10.1073/pnas.1515652112
- 5. Swanson-Hysell, N.L., Maloof, A.C., Condon, D.J., Jenkin, G.R.T., Alene, M., **Tremblay, M.M.**, Tesema, T., Rooney, A.D., and Haileab, B., 2015, Stratigraphy and geochronology of the Tambien Group, Ethiopia: Evidence for globally synchronous carbon isotope change in the Neoproterozoic. *Geology*, v. 43(4), p. 323-326. doi:10.1130/G36347.1
- Breecker, D.O., Bergel, S., Nadel, M., Tremblay, M.M., Osuna-Orozco, R., Larson, T.E., and Sharp, Z.D., 2015, Minor stable carbon isotope fractionation between respired carbon dioxide and bulk soil organic matter during laboratory incubation of topsoil. *Biogeochemistry*, v. 123, p. 83-98. doi:10.1007/s10533-014-0054-3
- 3. **Tremblay, M.M.**, Shuster, D.L., and Balco, G., 2014, Diffusion kinetics of ³He and ²¹Ne in quartz and implications for cosmogenic noble gas paleothermometry. *Geochimica et Cosmochimica Acta*, v. 142, p. 186-204. doi:10.1016/j.gca.2014.08.010
- 2. **Tremblay, M.M.**, Shuster, D.L., and Balco, G., 2014, Cosmogenic noble gas paleothermometry. *Earth and Planetary Science Letters*, v. 400, p. 195-205. doi:10.1016/j.epsl.2014.05.040
- 1. Straub, M., **Tremblay, M.M.**, Sigman, D.M., Studer, A.S., Ren, H., Toggweiler, J.R., and Haug, G.H., 2013, Nutrient conditions in the subpolar North Atlantic during the last glacial period reconstructed from foraminifera-bound nitrogen isotopes. *Paleoceanography*, v. 28, p. 79-90. doi:10.1002/palo.20013

Other publications

- Ketcham, R.A., **Tremblay, M.M.**, Abbey, A.L., Baughman, J.S., Cooperdock, E.H.G., Jepson, G., Murray, K.E., Odlum, M.L., Stanley, J.R., and Thurston, O.G., 2022, Report from the 17th International Conference on Thermochronology. *Earth and Space Sciences Open Archive*. doi: 10.1002/essoar.10511082.1
- Cohen, B.A., Zellner, N., Wadhwa, M., Turrin, B., **Tremblay, M.M.**, and 26 others, 2020, Geochronology as a Framework for Inner Solar System History. *Bulletin of the American Astronomical Society*, v. 53, no. 4, p. 020. doi: 10.3847/25c2cfeb.1b2670e3

CONFERENCE PROCEEDINGS, LAST 3 CALENDAR YEARS

- 16. Blevins, A.M., Minton, D.A., Huang, Y.H., Du, J., and **Tremblay, M.M.**, Modeling the source of impact melt at the Apollo 14-17 sites. Lunar and Planetary Science Conference, The Woodlands, TX.
- 15. Mijjum, M.^G, Andrews, B.A., McCoy, T.J., Corrigan, C.M., Caffee, M.W., an **Tremblay, M.M.**, 2024, Using micro-computed tomography to determine subsample-specific cosmogenic noble gas production rates of E chondrites. Lunar and Planetary Science Conference, The Woodlands, TX.
- 14. Remian, B.^U, Guo, H.^P, and **Tremblay, M.M.**, 2023, Using detrital thermochronology to investigate the erosional response to glaciation and tectonics in the midlatitude Patagonian Andes. American Geophysical Union Fall Meeting, San Francisco, CA.
- 13. Bristol, K.E., Sprain, C.J., Griffis, A., Mittal, T., Fendley, I.M., Durraiswami, R.A., Monteiro, A., Mijjum, M.^G, and **Tremblay, M.M.**, 2023, Assessing Eruptive Hiatus Durations of the Deccan Traps Large Igneous Province Using Quantitative Paleosecular Variation Analysis. American Geophysical Union Fall Meeting, San Francisco, CA.
- 12. Colleps, C. van der Beek, P., Amalberti, J., **Tremblay, M.M.**, and Bernard, M., 2023, Establishing new proton-irradiation protocols for ⁴He/³He thermochronology. 18th International Conference on Thermochronology, Riva del Garda, Italy.

3 of 9

- 11. Mijjum, M.^G, Bristol, K.E., Bono, R.K., Sprain, C.J., and **Tremblay, M.M.**, 2023, A model framework for scaling pre-Quaternary cosmogenic nuclide production rates. Geochronology Gordon Research Conference, West Dover, VT.
- 10. Guo, H.P, Zeitler, P.K., and **Tremblay, M.M.**, 2023, Continuous ramped heating analysis of KTB apatites reveals diffusion sinks in apatite. Geochronology Gordon Research Conference, West Dover, VT.
- 9. Fink, J.^G, **Tremblay, M.M.**, Tobin, T. Stockli, L.D., Stockli, D.F., and Ickert, R.B., 2023, Diagenesis of fossil gar fish scales with implications for geochronological and paleoenvironmental applications. 33rd Annual V.M. Goldschmidt Conference, Lyon, France.
- 8. Blevins, A. M., Minton, D.A., Huang, Y.-H., Du, J., and **Tremblay, M.M.**, 2023, Modelling the effects of post-Imbrium carters on the Apollo sampling record. 54th Lunar and Planetary Science Conference, The Woodlands. USA.
- 14. Salazar, Y.O., Mixon, E., Moreno-Yaeger, P., Romero, M.^G, **Tremblay, M.M.**, and Marcott, S.A., 2023, A ³He based Holocene glacial chronology from Villarrica volcano, Chile. 21st Congress of the International Union for Quaternary Research, Rome, Italy.
- 7. Sprain, C.J., Mittal, T., Bristol, K., Duraiswami, R., **Tremblay, M.M.**, Mijjum, M.^G, and Monteiro, A., 2022, Quantitative paleosecular variation analysis: A new tool for assessing time using paleomagnetism. American Geophysical Union Fall Meeting, Chicago, USA.
- 6. Fink, J.T.^G, **Tremblay, M.M.**, Tobin, T.Ś., Stockli, L.D., and Stockli, D.F., 2022, Chemistry and structure of fossil gar scales with implications for bioapatite (U-Th)/He thermochronology. Geological Society of America Annual Meeting, Denver, USA.
- 5. Pederson, J.L., Stanley, J.R., and **Tremblay, M.M.**, 2022, Exploring Ken Pierce's conceptual model of transient landscape evolution around the Yellowstone geodynamic system research along fluvial transects off the Yellowstone plateau. Geological Society of America Annual Meeting, Denver, USA.
- 4. Weeks, C., Stanley, J.R., and **Tremblay, M.M.**, 2022, Post-Laramide exhumation and topography in the Madison and Gallatin Ranges of southwest Montana from apatite (U-Th)/He thermochronometry. Geological Society of America Annual Meeting, Denver, USA.
- 3. Mijjum, M.^G, Blair, D.^U, and **Tremblay, M.M.**, 2022, Estimating the compositional dependence of cosmogenic noble gas production rates in E-chondrite subsamples using high-resolution X-ray computed tomography. 85th Annual Meeting of The Meteoritical Society, Glasgow, United Kingdom.
- 2. **Tremblay, M.M.**, Gu, T., Herring, J.^u, and Tay, S.X.^u, 2022, Understanding the effect of defects on ³He diffusion in quartz with paired simulations and experiments. 32nd Annual V.M. Goldschmidt Conference, Honolulu, USA.
- Singer, B.S., Marcott, S.A., Moreno-Yaeger, P., Romero, M.^G, Tremblay, M.M., Alloway, B., Moreno, P.I, and Jicha, B.R., 2022, The role of radioisotopic and cosmogenic geochronology in understanding ice forcing in arc magmatic plumbing systems. 12th South American Symposium on Isotope Geology, Santiago, Chile.

CURRENT EXTERNAL FUNDING

Collaborative research: Reevaluating the timing and driver of escarpment retreat in southeast Australia	2024–2027
PI, National Science Foundation Using detrital thermochronology to gain new insights into the erosional response to	2023–2024
glaciation and tectonics in the midlatitude Patagonian Andes	
PI, U.S. Science Support Program, International Ocean Discovery Program	
Sloan Research Fellowship, Alfred P. Sloan Foundation	2022-2024
Testing the role of oceanic plateau cooling history and rheology on accretion	2022–2025
Co-PI, National Science Foundation	
Collaborative research: Using the tempo of exhumation and relief development to	2022–2025
investigate mantle-to-surface connections around the Yellowstone hotspot	
Co-PI, National Science Foundation	
Collaborative Research: Ice Forcing in Arc Magma Plumbing Systems (IF-AMPS)	2021–2026
Co-PI, National Science Foundation	

Collaborative research: Reconstructing temperatures during the mid-Pliocene Warm Period 2020–2023 in the McMurdo Dry Valleys with cosmogenic noble gases

PI, National Science Foundation

Collaborative research: Using hiatus durations to quantify the tempo of Deccan volcanism 2020–2023

PI, National Science Foundation

INVITED LECTURES

Department of Earth and Environmental Sciences, Columbia University	February 2024
Department of Geology, Carleton College	January 2024
Institute of Geosciences, University of Potsdam	November 2023
Department of Geology, University of Kansas	February 2023
School of Earth and Space Exploration, Arizona State University, Tempe, AZ	February 2023
Department of Earth and Environmental Sciences, Syracuse University, Syracuse, NY	September 2022
Department of Geosciences, Missouri University of Science and Technology	February 2022
Department of Earth Sciences, University of Geneva	December 2021
Jackson School of Geosciences, University of Texas at Austin	November 2021
Department of Earth and Environmental Sciences, UT Arlington	October 2021
Department of Earth and Planetary Sciences, University of New Mexico	September 2021
Department of Geological Sciences and Engineering, Queen's University	March 2021 December 2020
Department of Earth Sciences, University of Geneva	
Purdue Climate Change Research Center	December 2020 November 2020
Department of Geophysical Sciences, University of Chicago	October 2020
Department of Geology, Carleton College Department of Earth and Atmospheric Sciences, Indiana University	October 2020
Department of Earth and Atmospheric Sciences, Indiana Oniversity Department of Geology and Geophysics, Louisiana State University	October 2020
Department of Geology and Geophysics, Louisiana State University Department of Earth and Environmental Sciences, Vanderbilt University	February 2020
Department of Geosciences, Princeton University	November 2019
Department of Geology, University of Illinois Urbana-Champaign	October 2019
The Hutton Club, University of Edinburgh	November 2018
School of Geographical & Earth Sciences, University of Glasgow	March 2018
School of Geographical & Earth Sciences, University of Manchester	February 2018
Department of Geoscience, University of Wisconsin–Madison	February 2018
Department of Geoscience, University of Wisconsin–Madison Department of Earth, Atmospheric, and Planetary Sciences, Purdue University	February 2018
Department of Geology and Geophysics, Yale University	February 2018
School of School of Earth and Ocean Sciences, University of Victoria	January 2018
Department of Earth, Ocean and Ecological Sciences, University of Liverpool	November 2017
School of Earth and Environmental Sciences, University of St Andrews	November 2017
Department of Earth and Planetary Science, UC Berkeley	May 2017
Department of Earth and Planetary Sciences, UC Davis	March 2017
Department of Cartin and Franciary Sciences, SO Davis Department of Geological Sciences, Stanford University	February 2017
Department of Geological Ociences, Stanford Oniversity Department of Earth Science, University of California, Santa Barbara	January 2017
Department of Cartin Science, Oniversity of California, Cartia Barbara Department of Geography and Environment, University of Aberdeen	October 2015
Scottish Universities Environmental Research Centre	October 2015
Codadi Chivordaco Environmental recodion Conto	COLODE: 2010

ACADEMIC ADVISING

Postdoctoral researchers

Dr. Hongcheng Guo, Purdue University, EAPS	2023-present
Dr. Nicholas Meszaros, Purdue University, EAPS	2023-present

PhD students

Moshammat Mijjum, Purdue University, EAPS	2020-present
Matias Romero, UW-Madison, Geoscience (co-advised with Shaun Marcott)	2022-present
Wenbo Zhang, Purdue University, EAPS	2023-present

Dr. John Carter, SUERC (co-advised with Darren Mark) Current position: Postdoctoral Scholar, Berkeley Geochronology Center	2018–2021
MS students	
Addison Curtis, Purdue University, EAPS	2023-present
John Fink, Purdue University, EAPS	2020–2023
Current Position: PhD student, Boise State University	
Undergraduate & postbaccalaureate research assistants	
Taylor Bourikas, Purdue EAPS	2023-present
Kamden Maddox, Purdue EAPS	2023-present
Bethany Remian, Purdue EAPS	2023-present
Kevin Rivera, Purdue EAPS	2022-present
Cayden Woolery, Purdue EAPS	2024-present
Gabrielle Wagner, Purdue EAPS	2023
Justin Daisey, Purdue EAPS	Summer 2022
Sui Xiong Tay, Purdue Materials Science Engineering	2022–2023
Devin Blair, Purdue EAPS	2021–2022
Brittany Linn, Purdue Chemistry	2021
Juliana Peckenpaugh, Purdue EAPS	2020–2021
John Herring, Purdue EAPS (URSA Scholar)	2020–2023
Simon Mason, Purdue Computer Science (Summer Stay Scholar)	2020
Isabella Zuffoletti, Purdue EAPS (URSA Scholar)	2020
Samantha Golding, Purdue EAPS	2019–2020
Abigail Robinson, SUERC (Paneth Meteorite Trust Intern)	Summer 2018
Matthew Kirk, UC Berkeley EPS	2017–2018
Tristan Bench, UC Berkeley EPS	2016–2017
Maura Uebner, UC Berkeley EPS (Honors thesis)	2015–2017
Sylvia Woodmansee, UC Berkeley EPS	Summer 2015
Sarah Beroff, UC Berkeley EPS (NERDS program)	Summer 2013
PhD student advisory committees	
Emily Apel, Purdue University, EAPS	2021–2023
Austin Blevins, Purdue University, EAPS (committee chair)	2019-present
Erin Donaghy, Purdue University, EAPS (committee chair)	2020-present
Gryphen Goss, Yale University, Earth and Planetary Sciences	2021-present
Xianmei Huang, Purdue University, EAPS	2023-present
Riley McGlasson, Purdue University, EAPS	2021-present
Carlos Montejo, University of Idaho, Geological Sciences	2023-present
Dr. Laura Chaves, Purdue University, EAPS (committee chair)	2019–2023
Dr. Alexandria Koester, Purdue University, EAPS	2019–2023
Dr. Angus Moore, Purdue University, EAPS	2020–2023
Dr. Sean Wiggins, Purdue University, EAPS	2020–2022
MS student advisory committees	
Chloë Weeks, University of Idaho, Geological Sciences	2021–2022
PhD student examining committees	
Joanne Elkadi, University of Lausanne, Institute of Earth Surface Dynamics	2022

TEACHING

Purdue University (as Instructor) EAPS 100 Planet Earth EAPS 591 Geo/cosmochemistry EAPS 591 Geologic Dating Methods	Spring 2021, Spring 2022, Spring 202	23, Spring 2024 Fall 2020 2019, Fall 2021
UC Berkeley (as Graduate Student Reader or Grade EPS 124/224 Isotope Geochemistry EPS 116 Structural Geology and Tectonics EPS 124/224 Isotope Geochemistry EPS 117 Geomorphology EPS 131 General Geochemistry DEPARTMENT & UNIVERSITY SERVICE	duate Student Instructor)	Spring 2017 Spring 2016 Spring 2015 Fall 2014 Spring 2013
DELYNCHIER GONT EROTT OF COLOR		
University Service Search Committee, Frederick L. Hovde Dean of the Fellowship Review Committee, Purdue Graduate Sc Faculty Mentor, Emerging Leaders Science Scholars of Science Research Mentor, Research Excellence, Access and Purdue University Office of Diversity, Inclusion & Career Mentor, Focus Forward Fellowship, Military Interviewee, Purdue Women's Network Cocktails ar Snack and Chat faculty participant, Purdue College Judge, Purdue Undergraduate Research Conference Panelist, "Ask a Scholar: Goldwater Scholars' Advice International Scholarships Office	chool s Program, Purdue University College d Learning (REAL) Scholars Program, a Belonging Family Research Institute and Conversation series of Science Student Council	2023 2023–2024 2023–present 2024 2023 2023 2021 2020 2020, 2021
Department Service Organizer, EAPS Geology & Geophysics 'Gaggle' to Ad hoc search committee in aqueous geochemistry Executive Committee, Purdue EAPS Safety Committee, Purdue EAPS Graduate Committee, Purdue EAPS Outreach Committee, Purdue EAPS Outreach Committee, Purdue EAPS Organizer, EAPS recruitment booth, Meteoritical So Award Presenter, EAPS Awards Banquet Featured presenter, EAPS on the Rocks alumni ever Rapporteur, EAPS Strategic Planning Initiative, "Free between earth's interior and surface" EAPS Alumni Receptions, Geological Society of Armand American Geophysical Union Fall Meet	eciety meeting, Glasgow ent rom the Bottom Up: Interconnections merica Annual Meeting (Phoenix, AZ)	2020–present 2022 2021–present 2020–present 2019–2021 2019–2021 2022 2022 2021 2022
Service in Former Departments Coordinator, SUERC seminar series Member, SUERC self-assessment team, Athena-St Co-coordinator, Center for Isotope Geochemistry se Graduate Student Representative, Earth and Planet Co-coordinator, EPS graduate student brown bag se	eminar series, UC Berkeley tary Science, UC Berkeley	2018–2019 2018 2017 2015 2013–2014

PROFESSIONAL SERVICE

Peer-reviewed Journals

Associate Editor, *Geochronology (GChron)*Associate Editor, *The Journal of Geology*Guest Editor, *Elements* magazine, Noble Gas Thermochronology thematic issue

2019–present
2023–present
2019–2020

Journal Referee: American Journal of Science; Applied Geochemistry; Boreas; Chemical Geology; Chemical Physics; Earth and Planetary Science Letters; Earth Surface Dynamics; Geochemicla Perspective Letters; Geochemistry, Geophysics, Geosystems; Geochimica et Cosmochimica Acta; Geochronology; Geology; Geophysical Research Letters; Journal of Geology; Journal of the Geological Society; Journal of Geophysical Research: Earth Surface; Meteoritics & Planetary Science; Nature; Nature Geoscience; Palaeogeography, Palaeoclimatology, Palaeoecology; Quaternary Geochronology; Science Advances; Tectonics

Funding Agencies

- Proposal Review Panelist: American Association for the Advancement of Science Research Competitiveness Program; National Aeronautics and Space Administration; National Science Foundation; Advancing Geochronology Science, Spaces, and Systems (AGeS³)
- Ad Hoc Proposal Referee: American Chemical Society Petroleum Research Fund; National Aeronautics and Space Administration; National Geographic; National Science Foundation; UK Science and Technology Facilities Council

Conferences and Workshops

Vice Chair, Geochronology Gordon Research Conference	2023–2025
Scientific Committee, 18 th International Conference on Thermochronology (Thermo2023)	2022–2023
Organizing Committee, 17 th International Conference on Thermochronology (Thermo2021)	2019–2021
Discussion Moderator, National Academies of Sciences, Engineering, and Medicine Workshop, <i>Identifying New Community-Driven Science Themes for NSF's Support of Paleoclimate Research</i>	2021
Discussion Leader, Evolution of the Lithosphere, Gordon Research Conference on	2020–2023
Geochronology	
EarthRates All Hands Meeting invitee and participant	2021
Invitee and participant, Strategic Planning Summit, American Association for the	2021
Advancement of Science	
Session Convener, "Novel advances in understanding the behavior of noble gases in geologic materials" 34 th Annual V.M. Goldschmidt Conference	2024
Session Convener, "Developments and Challenges in (U-Th-Sm)/He Thermochronology"	2023
Thermo2023 Conference	0000
Session Convener, "Investigating Earth surface processes using cosmogenic nuclides, non-traditional isotope systems, and other novel proxies" 32 nd Annual V.M.	2022
Goldschmidt Conference	2024
Session Convener, "Charles and Nancy Naeser Early Career Session" Thermo2021 Conference	2021
Session Convener, "Additional Noble Gas and Solid State Thermochronometers" Thermo2021 Conference	2021
	2019
Session Convener, "Advances and applications in Quaternary geochronology" 100 th Annual American Geophysical Union Fall Meeting	2019
Session Convener, "Innovations and Advances and in Thermochronology" 27 th Annual V.M. Goldschmidt Conference	2017
Session Convener, "Novel Geochemical Approaches for Quantifying Rates of Surface Processes" 26 th Annual V.M. Goldschmidt Conference	2016

Society Leadership & Volunteering

Proposal Review Committee Member, Diversity in Geochronology (DiG), Advancing	2023
Geochronology Science, Spaces, and Systems (AGeS ³) Program	
Member, Mineralogical Society of America Award Nomination Committee	2023-2026
Member-at-Large: Early Career Professional, Penrose Conferences & Thompson Field	2022-2025
Forum Committee, Geological Society of America	
Volunteer Mentor, Geochronology Gordon Research Conference	2023
Drop-in Mentor, Geological Society of America Annual Meeting, Portland, USA	2021
Outstanding Student Paper Award Coordinator & Student Travel Grant Reviewer, VGP	2017–2018
Section, American Geophysical Union	

DIVERSITY, EQUITY, AND INCLUSION INVOLVEMENT

Research Mentor, Research Excellence, Access and Learning (REAL) Scholars Program, Purdue University Office of Diversity, Inclusion & Belonging	2024
Faculty Mentor, Emerging Leaders Science Scholars Program, Purdue University College of Science	2023-present
Unlearning Racism in Geosciences (URGE), Purdue pod faculty member	2021
Member, ADVANCE Resource and Coordination (ARC) Network STEM Equity Brain Trust	2020-present
NASA Workshop Preventing Harassment in Science: Building a Community of Practice	2020
Toward Meaningful Change	
Hollaback! Bystander Intervention Training to stop anti-Asian/American and xenophobic	2020
harassment	
Purdue FIDIA Be a Better Ally: What We Say at Purdue and Why it Matters Workshop	2020
Purdue LGBTQ Center Safe Zone training	2019
Purdue ADVANCE/OVPEC Faculty Search Committee training	2019
Maximizing Student Potential Conference, Purdue Division of Diversity and Inclusion	2019

OUTREACH AND VOLUNTEERING

Classroom visits on Antarctica, Indianapolis Public Schools	2023
SciLine Expert Source, American Association for the Advancement of Science	2020-present
Science-A-Thon, Earth Science Women's Network	2018–2021
Speaker, Indiana Astronomical Society 2020 program series	2020
Guest, Purdue College of Science Superheroes of Science podcast	2019
Volunteer, Skype a Scientist	2019–2021
Pen pal, Letters to a Pre-Scientist	2018–2021
Mentor, Society of Women in the Physical Sciences, UC Berkeley	2013-2015
EPS graduate student outreach, Bay Area Scientists in Schools	2013-2016
Research Mentor, UC Berkeley NERDS program	2013
Alumni Admissions Representative, Barnard College	2014-present

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science (2020–present); American Chemical Society (2021–present); American Geophysical Union (2009–present); European Association of Geochemistry (2018–present); European Geosciences Union (2016–present); Geochemical Society (2012–present); Geological Society of America (2009–present); Mineralogical Society of America (2020–present); Meteoritical Society (2017–present); National Association of Geoscience Teachers (2020–present).

9 of 9