Marissa M. Tremblay

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EDUCATION

University of California, Berkeley (UC Berkeley)	2012–2017
Ph.D., Earth and Planetary Science (EPS)	
Advisor: David L. Shuster	
Barnard College of Columbia University	2008–2012
B.A. Environmental Science, summa cum laude	

PROFESSIONAL APPOINTMENTS

Assistant Professor, Purdue University	2019-present
Department of Earth, Atmospheric, and Planetary Sciences (EAPS) Honorary Assistant Professor, University of Wisconsin-Madison	2022–2023
Department of Geoscience	
Newton International Fellow of the Royal Society	2018–2019
Scottish Universities Environmental Research Centre (SUERC)	
Mentor: Darren Mark	
University of California President's Postdoctoral Fellow	2017
University of California, Davis	
Mentor: Sujoy Mukhopadhyay	

HONORS AND AWARDS

Antarctica Service Medal	2023
Sloan Research Fellowship, Alfred P. Sloan Foundation	2022
Marion Milligan Mason Award for Women in the Chemical Sciences, American Association for the Advancement of Science	2020
Doris M. Curtis Outstanding Woman in Science Award, Geological Society of America	2020
Citation for Excellence in Refereeing, American Geophysical Union	2018
Charles & Nancy Naeser Prize, Intl. Standing Committee on Thermochronology	2018
Marie Skłodowska-Curie Individual Fellowship (declined)	2018
The Royal Society Newton International Fellowship	2017
University of California President's Postdoctoral Fellowship	2017
Lamont-Doherty Earth Observatory Postdoctoral Fellowship (declined)	2017
Louderback Award, UC Berkeley EPS	2015
National Science Foundation Graduate Research Fellowship	2014
Outstanding Graduate Student Mentor, NERDS program, UC Berkeley	2013
Richards Family Graduate Fellowship, UC Berkeley	2012
Departmental Honors, Barnard College Environmental Science	2012
Distinction, Senior Thesis, Barnard College Environmental Science	2012
Phi Beta Kappa	2011
Barry M. Goldwater Scholarship	2011
National Oceanic and Atmospheric Administration Ernest F. Hollings Scholar	2010

Peer-reviewed

- Mijjum, M.^G, Bristol, K.E., Bono, R.K., Sprain, C.J., and **Tremblay, M.M.**, A model framework for scaling pre-Quaternary cosmogenic nuclide production rates. Accepted, *Geochemistry, Geophysics, Geosystems.*
- Mijjum, M.^G, Andrews, B., McCoy, T. Corrigan, C., Caffee, M.W., and **Tremblay, M. M.**, 2025, Using micro-computed tomography (µCT) to determine subsample-specific cosmogenic noble gas production rates of enstatite (E) chondrites. *Meteoritics and Planetary Science*, p. 1-22. doi: 10.1111/maps.143091
- **Tremblay, M.M.**, Mark, D.F., Barfod, D.N., Cohen, B.E., Ickert, R.B., Lee, M.R., Tomkinson, T., and Smith, C.L., 2024, Dating of recent aqueous activity on Mars. *Geochemical Perspective Letters*, v. 32, p. 58-62. doi: 10.7185/geochemlet.2443
- Singer, B.S., Moreno-Yaeger, P., Townsend, M., Huber, C., Cuzzone, J., Edwards, B.R., Romero, M.^G, Orellana-Salazar, Y., Marcott, S., Breunig, R., Ferrier, K., Scholz, K., Coonin, A.N., Alloway, B.V., **Tremblay, M.M.**, Stevens, S., Fustos-Toribio, I., Moreno, P.I., Vera, F., and Amigo, A., 2024, New perspectives on ice forcing in continental arc magma plumbing systems. *Journal of Volcanology and Geothermal Research.* v. 455, 108187. doi: 10.1016/j/jvolgeores.2024.108187
- 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*. v. 372, p. 196-213. doi: 10.1016/j.gca.2024.03.004
- 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
- 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
- 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.
- 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
- 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
- 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
- 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
- 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
- **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

- 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
- 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
- **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
- 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
- **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
- 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
- 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
- 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
- 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
- **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
- 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
- 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

In review or revision

- Blevins, A.M., Minton, D.A., Huang, Y.H., Du, J., **Tremblay, M.M.**, and Fassett, C.I., Apollo Impact Melts Record a Rapidly Declining Impact Rate in the Late Imbrian. In revision.
- Colleps, C.L., van der Beek, P., Amalberti, J., Sobel, E., **Tremblay, M.M.**, and Bernard, M., Evaluating the resolving power of apatite ⁴He/³He thermochronology: Insights from the Fish Canyon Tuff. In review.

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

- Mijjum, M.^G, and **Tremblay, M.M.**, 2025 Helium diffusion kinetics in enstatite, kamacite, and albite, with implications for the cosmic ray exposure ages of enstatite (E) chondrites. Lunar and Planetary Science Conference, The Woodlands, TX.
- Blevins, A.M., Minton, D.A., Huang, Y.H., Du, J., **Tremblay, M.M.**, and Fassett, C.I., 2025, Using numerical modeling and Bayesian inference to constrain the source craters of Apollo impact melts. Lunar and Planetary Science Conference, The Woodlands, TX.
- Romero, M.^G, Marcott, S.A., Cuzzone, J., **Tremblay, M.M.**, and Jones, A.G., 2025, A Data-Model Comparison of Ice Sheet Demise in Northern Patagonia During the Last Deglaciation. European Geophysical Union, Vienna, Austria.
- Orellana-Salazar, Y., Marcott, S.A., **Tremblay, M. M.**, Moreno-Yaeger, P., Romero, M.^G, and Mixon, E.E., 2025, A ³He-based Holocene glacial chronology from Villarica volcano, Chile. European Geophysical Union, Vienna, Austria.
- **Tremblay, M.M.**, Mark, D.F., Barfod, D.N., Cohen, B.E., Ickert, R.B., Lee, M.R., Tomkinson, T., and Smith, C.L., 2024, Dating of recent aqueous activity on Mars. American Geophysical Union Fall Meeting, Washington, D.C.
- Bristol, K.E., Sprain, C.J., Mittal, T., Monteiro, A., Duraiswami, R., **Tremblay, M.M.**, and Mijjum, M.^G, 2024, Mantle Plumes and Geomagnetic Intensity Variations: Insights from the Deccan Traps. American Geophysical Union Fall Meeting, Washington, D.C.
- Montejo, C. Stanley, J., **Marissa, M.M.**, Weeks, C., and Zhan, W., Unravelling the Role of the Yellowstone Hotspot in the Late Cenozoic Exhumation History of the Gallatin River Catchment, Gallatin County, Southwest Montana. American Geophysical Union Fall Meeting, Washington, D.C.
- Romero, M.^G, Marcott, S.A., Cuzzone, J., **Tremblay, M.M.**, Jones, A.G.,, Hietpas, E., and Orellana Salazar, Y., 2024, A Record of Northern Patagonian Ice Sheet Thinning During the Last Deglaciation. American Geophysical Union Fall Meeting, Washington, D.C.
- **Tremblay, M.M.**, Lifton, N.A., Cherkauer, K.A., Apel, E.V.^G, Goss, G.A., and Tiwari, A., 2024, Timing of deglaciation from multiple cosmogenic nuclides in bedrock at McCullough Gulch, Southern Rocky Mountains, USA. Geological Society of America Annual Meeting, Anaheim, CA.
- Guo, H.^P, **Tremblay, M.M.**, Zeitler, P.K., Idleman, B.D., and Fayon, A.K., 2024, Temperature-sensitive trapping of helium in apatite: insights from ⁴He/³He diffusion experiments. 34th Annual V.M. Goldschmidt Conference, Chicago, IL.
- Guo, H.^P, Fayon, A.K., **Tremblay, M.M.**, Zeitler, P.K., and Idleman, B.D., 2024, Investigating how deformation and pressure influence the behavior of helium in apatite. 34th Annual V.M. Goldschmidt Conference, Chicago, IL.

- Mijjum, M.^G, **Tremblay, M.M.**, Andrews, B.J., McCoy, T.J., Corrigan, C.M., Caffee, M.W., Balco, G., and Shollenberger, Q.R., 2024, Effects of subsample heterogeneity and diffusion kinetics on the exposure ages of enstatite (E) chondrites. 87th Annual Meeting of The Meteoritical Society, Brussels, Belgium.
- **Tremblay, M.M.**, 2024, Opportunities and challenges for reconstructing past Earth and planetary surface temperatures with cosmogenic noble gases. 6th Workshop on Cosmogenic Nuclides (Cosmo2024), Cologne, Germany.
- Mijjum, M.^G, Bristol, K.E., Bono, R.K., Sprain, C.J., Lifton, N., and **Tremblay, M.M.**, 2024, A model framework for scaling pre-Quaternary cosmogenic nuclide production rates. 6th Workshop on Cosmogenic Nuclides (Cosmo2024), Cologne, Germany.
- Montejo, C, Stanley, J.R., **Tremblay, M.M.**, and Weeks, C., 2024, Examining the Late Cenozoic exhumation history of the Gallatin River catchment and its relationship to the Yellowstone hotspot, Gallatin County, southwest Montana. Geological Society of America Joint Cordilleran and Rocky Mountain Section Meeting, Spokane, WA.
- Guo, H.^P, Remian, B.^U, and **Tremblay, M.M.**, 2024, Mid-Pleistocene changes in glacial erosion rates in the mid-latitude Patagonian Andes revealed by detrital thermochronology of ocean sediments. Geological Society of America Joint North Central and South Central Section Meeting, Springfield, MO.
- **Tremblay, M.M.**, Bourikas, T.^U, Bergelin, M., and Balco, G., 2024, A proxy system model framework for reconstructing past environmental conditions with cosmogenic noble gases. European Geophysical Union, Vienna, Austria.
- Guo, H.^P, Zeitler, P.K., Idleman, B., and **Tremblay, M.M.**, 2024, Helium diffusion systematics in apatites: lessons from Continuous Ramped Heating analysis. European Geophysical Union, Vienna, Austria.
- Bourikas, T.^U, **Tremblay, M.M.**, Lamp, J.L., Balco, G., and Granger, D.E., 2024, Relationships between temperature, elevation, and surface exposure age in the McMurdo Dry Valleys, Antarctica. European Geophysical Union, Vienna, Austria.
- Blevins, A.M., Minton, D.A., Huang, Y.H., Du, J., and **Tremblay, M.M.**, 2024, Modeling the source of impact melt at the Apollo 14-17 sites. Lunar and Planetary Science Conference, The Woodlands, TX.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

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.

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.

CURRENT EXTERNAL FUNDING

Engagement with the (U-Th)/He thermochronology community to develop common isotopic tracers and reference materials	2025
Co-PI, AGeS Training and Community Engagement (TRaCE) Program	
Collaborative Research: RUI: Resolving the effects of lithospheric foundering on orogenesis: An example from the southern Puna plateau, Argentina	2024–2027
Co-PI, National Science Foundation, Tectonics Program	
Collaborative research: Reevaluating the timing and driver of escarpment retreat in southeast Australia	2024–2027
PI, National Science Foundation, Geomorphology & Land Use Dynamics	
Testing the role of oceanic plateau cooling history and rheology on accretion	2022-2026
Co-PI, National Science Foundation, Tectonics program	
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, Tectonics program	
Collaborative Research: Ice Forcing in Arc Magma Plumbing Systems (IF-AMPS)	2021–2026
Co-PI, National Science Foundation, Frontier Research in Earth Sciences	
Collaborative research: Reconstructing temperatures during the mid-Pliocene Warm	2020–2025
Period in the McMurdo Dry Valleys with cosmogenic noble gases	
PI, National Science Foundation, Antarctic Sciences program	
Collaborative research: Using hiatus durations to quantify the tempo of Deccan volcanism	2020–2025
PI, National Science Foundation, Petrology and Geochemistry program	

INVITED LECTURES

Department of Earth and Spatial Sciences, University of Idaho Department of Geological Sciences, University of Florida Department of Earth and Environmental Science, Lehigh University Dept. of Earth, Environmental, and Planetary Sciences, Brown University Department of Earth Sciences, Dartmouth College 6 th Workshop on Cosmogenic Nuclides (COSMO24) Department of Earth and Environmental Sciences, Columbia University Department of Geology, Carleton College Institute of Geosciences, University of Potsdam Department of Geology, University of Kansas School of Earth and Environmental Sciences, Syracuse University Dept. of Earth and Environmental Sciences, Syracuse University Dept. of Earth and Environmental Sciences, Syracuse University	April 2025 February 2025 November 2024 October 2024 October 2024 May 2024 February 2024 January 2024 November 2023 February 2023 February 2022 February 2022
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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
Department of Earth Sciences, University of Geneva	December 2020
Purdue Climate Change Research Center	December 2020
Department of Geophysical Sciences, University of Chicago	November 2020
Department of Geology, Carleton College	October 2020
Department of Earth and Atmospheric Sciences, Indiana University	October 2020
Department of Geology and Geophysics, Louisiana State University	October 2020
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 Earth and Environmental Sciences, University of Manchester	February 2018
Department of Geoscience, University of Wisconsin–Madison	February 2018
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 Geological Sciences, Stanford University	February 2017
Department of Earth Science, University of California, Santa Barbara	January 2017
Department of Geography and Environment, University of Aberdeen	October 2015
Scottish Universities Environmental Research Centre	October 2015

ACADEMIC ADVISING

Postdoctoral researchers Dr. Hongcheng Guo, Purdue University, EAPS Dr. Nicholas Meszaros, Purdue University, EAPS <i>Current position: Visiting Assistant Professor, Earlham College</i>	2023–present 2023–2024
PhD students Moshammat Mijjum, Purdue University, EAPS Matias Romero, UW-Madison, Geoscience (co-advised with Shaun Marcott) Wenbo Zhang, Purdue University, EAPS Dr. John Carter, SUERC (co-advised with Darren Mark) <i>Current position: Postdoctoral Scholar, Berkeley Geochronology Center</i>	2020–present 2022–present 2023–present 2018–2021
MS students Addison Curtis, Purdue University, EAPS John Fink, Purdue University, EAPS <i>Current Position: PhD student, Boise State University</i>	2023–present 2020–2023
Undergraduate & postbaccalaureate research assistants Zachary Rynder, Purdue EAPS Cayden Woolery, Purdue EAPS (REAL Scholar)	2024–present 2024–present

Taylor Bourikas, Purdue EAPS Kamden Maddox, Purdue EAPS Bethany Remian, Purdue EAPS Gabrielle Wagner, Purdue EAPS Justin Daisey, Purdue EAPS Sui Xiong Tay, Purdue Materials Science Engineering Devin Blair, Purdue EAPS Brittany Linn, Purdue Chemistry Juliana Peckenpaugh, Purdue EAPS John Herring, Purdue EAPS (URSA Scholar) Simon Mason, Purdue Computer Science (Summer Stay Scholar) Isabella Zuffoletti, Purdue EAPS Abigail Robinson, SUERC (Paneth Meteorite Trust Intern) Matthew Kirk, UC Berkeley EPS Tristan Bench, UC Berkeley EPS Maura Uebner, UC Berkeley EPS (Honors thesis) Sylvia Woodmansee, UC Berkeley EPS Sarah Beroff, UC Berkeley EPS (NERDS program) PhD student advisory committees Austin Blevins, Purdue University, EAPS (committee chair) Gryphen Goss, Yale University, EAPS Riley McGlasson, Purdue University, EAPS Carlos Montejo, University of Idaho, Geological Sciences Emily Apel, Purdue University, EAPS (committee chair) Dr. Laura Chaves, Purdue University, EAPS (committee chair) Dr. Alexandria Koester, Purdue University, EAPS (committee chair) Dr. Alexandria Koester, Purdue University, EAPS (committee chair) Dr. Angus Moore, Purdue University, EAPS Dr. Angus Moore, Purdue University, EAPS	2023–2024 2023–2024 2023–2024 2022–2023 Summer 2022 2022–2023 2021–2022 2021–2022 2020–2021 2020–2023 2020 2019–2020 Summer 2018 2017–2018 2016–2017 2015–2017 Summer 2015 Summer 2013 2019–present 2021–present 2021–present 2023–present 2023–present 2023–present 2023–present 2023–present 2023–present 2023–present 2023–2023 2019–2023 2020–2024 2019–2023 2020–2024
Dr. Angus Moore, Purdue University, EAPS	2020–2023
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 Dy	ynamics 2022
TEACHING	
Purdue University (as Instructor)EAPS 100 Planet EarthSpring 2021, Spring 202	2, Spring 2023, Spring 2024, Spring 2025
EAPS 591 Geo/cosmochemistry EAPS 504 Geologic Dating Methods	Fall 2020 all 2019, Fall 2021, Fall 2024
IIC Berkeley (as Graduate Student Reader or Graduate Student In	structor)

UC Berkeley (as Graduate Student Reader or Graduate Student Instructor) EPS 124/224 Isotope Geochemistry Spring 2015, Spring 2017

EPS 116 Structural Geology and	Spring 2016
Tectonics	
EPS 117 Geomorphology	Fall 2014
EPS 131 General Geochemistry	Spring 2013

DEPARTMENT & UNIVERSITY SERVICE

University Service	
EAPS representative, College of Science Faculty Council	2024–2025
Search Committee, Frederick L. Hovde Dean of the College of Science	2023
Fellowship Review Committee, Purdue Graduate School	2023–2025
Faculty Mentor, Emerging Leaders Science Scholars Program, Purdue University College of Science	2023–present
Research Mentor, Research Excellence, Access and Learning (REAL) Scholars Program, Purdue University Office of Diversity, Inclusion & Belonging	2024
Career Mentor, Focus Forward Fellowship, Military Family Research Institute	2023
Interviewee, Purdue Women's Network Cocktails and Conversation series	2023
Snack and Chat faculty participant, Purdue College of Science Student Council	2021
Judge, Purdue Undergraduate Research Conference	2020, 2024
Panelist, "Ask a Scholar: Goldwater Scholars' Advice for Current Applicants,"	2020, 2021
National and International Scholarships Office	
Department Service	
Safety Committee, Purdue EAPS	2020-present
Seminar Committee, Purdue EAPS	2024-present
Strategic Planning Committee, Purdue EAPS	2024–present
Organizer, EAPS Geology & Geophysics 'Gaggle' talk series	2020-2024
Executive Committee, Purdue EAPS	2021–2024
EAPS Advisor, Advanced Materials cluster search	2023
Award Presenter, EAPS Awards Banquet	2022, 2023
Ad hoc search committee in aqueous geochemistry	2022
Organizer, EAPS recruitment booth, Meteoritical Society meeting, Glasgow	2022
Graduate Committee, Purdue EAPS	2019–2021
Outreach Committee, Purdue EAPS	2019–2021
Rapporteur, EAPS Strategic Planning Initiative, "From the Bottom Up: Interconnections between earth's interior and surface"	2022
Featured presenter, EAPS on the Rocks alumni event	2021
Service in Former Departments	
Coordinator, SUERC seminar series	2018–2019
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Member, SUERC self-assessment team, Athena-SWAN Charter application	2018
Co-coordinator, Center for Isotope Geochemistry seminar series, UC Berkeley	2017
Graduate Student Representative, Earth and Planetary Science, UC Berkeley	2015
Co-coordinator, EPS graduate student brown bag seminar, UC Berkeley	2013–2014

PROFESSIONAL SERVICE

Peer-reviewed Journals

Associate Editor, Geochronology (GChron)

2019-present

2023-present

Associate Editor, The Journal of Geology

Guest Editor, *Elements* magazine, Noble Gas Thermochronology thematic issue 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; Geology; Geophysical Research Letters; Geosphere; 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, Gordon Research Conference on Geochronology	2023–2025
Invitee and participant, Workshop on the future of the Cooperative Institute for Dynamic Earth Research (CIDER)	2024
Session Convener, "What's the cosmognosis? Recent Advances in Understanding Earth and Planetary Processes with Cosmogenic Nuclides" Geological Society of America Annual Meeting	2024
Session Convener, "Novel advances in understanding the behavior of noble gases in geologic materials" 34 th Annual V.M. Goldschmidt Conference	2024
Scientific Committee, 18 th International Conference on Thermochronology (Thermo2023)	2022–2023
Discussion Leader, <i>Evolution of the Lithosphere</i> , Gordon Research Conference on Geochronology	2020–2023
Session Convener, "Developments and Challenges in (U-Th-Sm)/He Thermochronology" Thermo2023 Conference	2023
Session Convener, "Investigating Earth surface processes using cosmogenic nuclides, non-traditional isotope systems, and other novel proxies" 32 nd Annual V.M. Goldschmidt Conference	2022
Organizing Committee, 17 th International Conference on Thermochronology (Thermo2021)	2019–2021
Invitee and participant, Strategic Planning Summit, American Association for the Advancement of Science	2021
Discussion Moderator, National Academies of Sciences, Engineering, and Medicine Workshop, <i>Identifying New Community-Driven Science Themes for</i> <i>NSF's Support of Paleoclimate Research</i>	2021
EarthRates All Hands Meeting invitee and participant	2021
Session Convener, "Charles and Nancy Naeser Early Career Session" Thermo2021 Conference	2021
Session Convener, "Additional Noble Gas and Solid State Thermochronometers" Thermo2021 Conference	2021
Session Convener, <i>"Advances and applications in Quaternary geochronology"</i> 100 th Annual American Geophysical Union Fall Meeting	2019

Session Convener, <i>"Innovations and Advances and in Thermochronology</i> " 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	
Member, International Standing Committee on Thermochronology	2023–2031
Member, Mineralogical Society of America Award Nomination Committee	2023–2024
Member-at-Large: Early Career Professional, Penrose Conferences & Thompson	2022–2025
Field 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	2017_2018

Outstanding Student Paper Award Coordinator & Student Travel Grant Reviewer, 2017–2018 VGP 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	2020-present
Brain Trust	
NASA Workshop Preventing Harassment in Science: Building a Community of Practice Toward Meaningful Change	2020
Hollaback! Bystander Intervention Training to stop anti-Asian/American and xenophobic harassment	2020
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	2014–2020

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); 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).