

David McGee

Department of Earth, Atmospheric and Planetary Sciences
Massachusetts Institute of Technology
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Cambridge, MA 02142
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davidmcg@mit.edu

Education

- 2006-2009 **Columbia University**, New York, New York
Ph.D. in Earth and Environmental Sciences
Advisors: Robert F. Anderson, Wallace S. Broecker, Gisela Winckler
- 2004-2006 **Tulane University**, New Orleans, Louisiana
M.S. in Earth and Environmental Sciences
Advisor: Franco Marcantonio
- 1999-2003 **Chatham College**, Pittsburgh, Pennsylvania
M.A. in Teaching with certification in Environmental Education
- 1993-1997 **Carleton College**, Northfield, Minnesota
B.A. in Geology

Appointments

- 2020- **Associate Department Head for Diversity, Equity and Inclusion**
Department of Earth, Atmospheric and Planetary Sciences
Massachusetts Institute of Technology
- 2017- **Associate Professor**, MIT (tenure granted 2019)
- 2014-2017 **Kerr-McGee Career Development Assistant Professor**, MIT
- 2012-2014 **Assistant Professor**, MIT
- 2009-2011 **NOAA Climate and Global Change Postdoctoral Research Fellow**
University of Minnesota
Mentor: R. Lawrence Edwards

Publications (*: student or postdoctoral advisee)

- N. Scroxton*, S. Burns, D. McGee, L.R. Godfrey, L. Ranivoharimanana, P. Faina. **Circum-Indian ocean hydroclimate at the mid to late Holocene transition: The Double Drought hypothesis and consequences for the Harappan**. Submitted.
- N. Scroxton*, S. Burns, D. McGee, L.R. Godfrey, L. Ranivoharimanana, P. Faina. **Possible expression of the 4.2 kyr event in Madagascar and the Southeast African monsoon**. Submitted.
- G.H. Rowland, L.F. Robinson, K.R. Hendry, H.C. Ng, D. McGee, J.F. McManus. **The spatial distribution of aeolian dust and terrigenous fluxes in the tropical Atlantic Ocean since the Last Glacial Maximum**. Submitted.
- C. Kinsley*, L.I. Bradtmiller, D. McGee, G. Winckler, M. Galgay, J.-B. Stuut, R. Tjallingii, G. Winckler, P.B. deMenocal. **Orbital- and Millennial-Scale Variability in Northwest African Dust Emissions Over the Past 67,000 years**. Submitted.

- D. Rodbell et al. **A 700,000-year record of Northern High Latitude Forcing of Glaciation in the Tropical Andes**. Submitted.
- M. Medina, S. Perritano, M. DeCesare, J. Polanco-Martinez, G. Serrato Marks*, D. McGee. **Holocene hydroclimate in the Southeastern United States during abrupt climate events: evidence from new speleothem isotopic records**. Submitted.
- K. Wright, K.R. Johnson, G. Serrato Marks*, D. McGee, T. Bhattacharya, G.R. Goldsmith, C.R. Tabor, J.-L. Lacaille-Muzquiz, G. Lum, L. Beramendi-Orosco. **Precipitation in Mexico dominated by changes in Atlantic Meridional Overturning Circulation**. Submitted.
- N. Biller, J. Shakun, D. McGee, C.I. Wong, A.V. Reyes, B. Hardt*, I. Tal*, D. Ford, B. Lauriol. **Increasing Pleistocene permafrost stability and carbon cycle conundrums inferred from Canadian speleothems**. In revision.
- S. Akam, T.W. Lyons, R.B. Coffin, D. McGee, T.H. Naehr, S.M. Bates, C. Clarkson, and B.K. Reese. **Carbon-Sulfur coupling and temporal patterns for Chapopote asphalt seeps in the southern Gulf of Mexico based on carbonate geochemistry**. Submitted.
- V. Brovkin et al. **Past abrupt changes, tipping points and cascading impacts in coupled climate-ecological-social systems: Lessons for the future**. In revision.
- T. Yuan, Yu, H., Chin, M., Remer, L.A., McGee, D., Evan, A., 2020. **Anthropogenic decline of African dust: Insights from the Holocene records and beyond**. *Geophysical Research Letters*, in press.
- A. Woods, Rodbell, D.T., Abbott, M.B., Hatfield, R.G., Chen, C.Y.*, Lehmann, S.B., McGee, D., Weidhaas, N.C., Tapia, P.M., Valero-Garces, B.L., Bush, M.B., Stoner, J.S., 2020. **Andean drought and glacial retreat tied to Greenland warming during the last glacial period**. *Nature Communications* 11, 5135.
- C.Y. Chen*, D. McGee, A. Woods, L. Pérez, R.G. Hatfield, R.L. Edwards, H. Cheng, B.L. Valero-Garcés, S.B. Lehmann, J.S. Stoner, A. Schwalb, I. Tal*, G.O. Seltzer, P.M. Tapia, M.B. Abbott, D.T. Rodbell, 2020. **U-Th dating of lake sediments: Lessons from the 700 kyr sediment record of Lake Junín, Peru**. *Quaternary Science Reviews* 244, 106422.
- T. Pico, D. McGee, J. Russell, J.X. Mitrovica, 2020. **Recent constraints on MIS 3 sea level support role of continental shelf exposure as a control on Indo-Pacific hydroclimate**. *Paleoceanography and Paleoclimatology* 35(8), doi:10.1029/2020PA003998.
- R. G. Hatfield, Stoner, J. S., Solada, K. E., Morey, A. E., Woods, A., Chen, C. Y.*, McGee, D., Abbott, M.B. and Rodbell, D. T., 2020. **Paleomagnetic constraint of the Brunhes age sedimentary record from Lake Junín, Peru**. *Frontiers in Earth Science* 8.
- K.M. Costa, C.M. Hayes, R.F. Anderson, et al., 2020. **^{230}Th normalization: New insights on an essential tool for quantifying sedimentary fluxes in the modern and Quaternary ocean**. *Paleoceanography and Paleoclimatology* 35(2), doi:10.1029/2019PA003820.
- D. McGee, 2020. **Glacial-interglacial precipitation changes**. *Annual Review of Marine Science* 12, 525-557.
- D. Bice, M. Lacroce, D. McGee, A. Montanari, 2019. **Late Pleistocene tectonic tilting of the Frasassi anticline from offset stalagmites in the Grotta Grande del Vento (Marche, Italy)**. GSA Special Paper 542, doi: 10.1130/2019.2542(25).

- F.L.H. Tissot*, M. Ibanez-Mejia, P. Boehnke, N. Dauphas, D. McGee, T.L. Grove, T. Mark Harrison, 2019. **$^{238}\text{U}/^{235}\text{U}$ measurement in single-zircon crystals: Implications for the Hadean environment, magmatic differentiation and geochronology.** *Journal of Analytical Atomic Spectrometry*, 34, 2035-2052.
- B.M. Ward, C. Wong, V. Novello, D. McGee, L. Silva, R.V. Santos, X. Wang, R.L. Edwards, H. Cheng, 2019. **Reconstruction of Holocene coupling between the South American Monsoon System and local moisture variability from speleothem $\delta^{18}\text{O}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ records.** *Quaternary Science Reviews* 210, 51-63, doi: 10.1016/j.quascirev.2019.02.019
- L.R. Godfrey, N. Scroton*, B.E. Crowley, S.J. Burns, M.R. Sutherland, V.R. Pérez, P. Faina, D. McGee, L. Ranivoharimanana, 2019. **A new interpretation of Madagascar's megafaunal decline: the "Subsistence Shift Hypothesis."** *Journal of Human Evolution* 130, 126-140.
- C. H. Anderson, R.W. Murray, A.G. Dunlea, L. Giosan, C.W. Kinsley*, D. McGee, and R. Tada, 2019. **Eolian delivery to Ulleung Basin, Korea (Japan Sea) during development of the East Asian Monsoon through the last 12 Ma.** *Geological Magazine*, 1-12, doi: 10.1017/S001675681900013X.
- N. Scroton*, S. Burns, D. McGee, B. Hardt*, L.R. Godfrey, L. Ranivoharimanana, P. Faina, 2019. **Competing temperature and atmospheric circulation effects on southwest Madagascan rainfall during the last deglaciation.** *Paleoceanography and Paleoclimatology* 34, doi: 10.1029/2018PA003466.
- C. Skonieczny*, D. McGee, G. Winckler, A. Bory, L. I. Bradtmiller, C.W. Kinsley*, P. J. Polissar, R. De Pol-Holz, L. Rossignol, B. Malaizé, 2019. **Monsoon-driven Saharan dust variability over the last 240,000 years.** *Science Advances* 5, doi: 10.1126/sciadv.aav1887.
- D. McGee, E. Moreno-Chamarro, J. Marshall, E.D. Galbraith, 2018. **Western U.S. lake expansions during Heinrich stadials linked to Pacific Hadley circulation.** *Science Advances* 4, doi: 10.1126/sciadv.aav0118.
- D. McGee, 2018. **Shifting summer rains** (Perspective). *Science* 342, 518-520.
- D. Ferreira, J. Marshall, T. Ito, D. McGee, 2018. **Linking glacial-interglacial cycles to multiple equilibria of climate.** *Geophysical Research Letters* 45, doi: 10.1029/2018GL077019.
- C.H. Anderson, R.W. Murray, A.G. Dunlea, L. Giosan, C.W. Kinsley*, D. McGee, R. Tada, 2018. **Climatically driven changes in the supply of terrigenous sediment to the East China Sea.** *Geochemistry, Geophysics, Geosystems* 19, doi: 10.1029/2017GC007339.
- N. Scroton*, S.J. Burns, P.A. Dawson, J.M. Rhodes, K. Brent*, D. McGee, H. Heijnis, P. Gadd, W.S. Hantoro, M.K. Gagan, 2018. **Rapid measurement of strontium in speleothems using core-scanning micro x-ray fluorescence.** *Chemical Geology* 487, 12-22.
- A.W. Omta, R. Ferrari, D. McGee, 2018. **An analytical framework for the impact of carbonate compensation on atmospheric CO_2 .** *Global Biogeochemical Cycles* 32, 720-735.
- D. McGee, E. Moreno-Chamarro, B. Green, J. Marshall, E. Galbraith, L. Bradtmiller, 2018. **Hemispherically asymmetric trade wind changes as signatures of past ITCZ shifts.** *Quaternary Science Reviews* 180, 214-228.
- D. McGee, P.B. deMenocal, 2017. **Climatic changes and cultural responses during the African Humid Period recorded in multi-proxy data.** *Oxford Research Encyclopedia of Climate Science*, Oxford University Press, doi:10.1093/acrefore/9780190228620.013.529.

- G.H. Rowland, H.C. Ng, L.F. Robinson, J.F. McManus, K.J. Mohamed, D. McGee, 2017. **Investigating the use of $^{232}\text{Th}/^{230}\text{Th}$ as a dust proxy using co-located seawater and sediment samples from the low-latitude North Atlantic.** *Geochimica et Cosmochimica Acta* 214, 143-156.
- N. Scropton*, S.J. Burns, D. McGee, B. Hardt*, L. Godfrey, L. Ranivoharimanana, P. Faina, 2017. **Hemispherically in-phase precipitation variability over the last 1700 years in a Madagascar speleothem record.** *Quaternary Science Reviews* 164, 25-36.
- B.E. Wortham, C.I. Wong, L.C.R. Silva, D. McGee, I.P. Montañez, E.T. Rasbury, K.M. Cooper, W.D. Sharp, J.G. Glessner, 2017. **Assessing response of local moisture conditions in central Brazil to regional variability in monsoon intensity using speleothem $^{87}\text{Sr}/^{86}\text{Sr}$ values.** *Earth and Planetary Science Letters* 463, 310-322.
- C.T. Hayes*, J. Rosen*, D. McGee, E.A. Boyle, 2017. **Thorium distributions in high and low dust regions and the significance for iron supply.** *Global Biogeochemical Cycles* 31, doi:10.1002/2016GB005511.
- R.H. Williams*, D. McGee, D.A. Ridley, C.W. Kinsley*, S. Hu, A. Fedorov, I. Tal*, R. Murray, P.B. deMenocal, 2016. **Glacial to Holocene changes in trans-Atlantic Saharan dust transport and dust-climate feedbacks.** *Science Advances* 2, doi:10.1126/sciadv.1600445.
- C.T. Hayes*, D. McGee, E.A. Boyle, S. Mukhopadhyay, A.C. Maloof, 2016. **Helium and thorium isotope constraints on African dust transport to the Bahamas over recent millennia.** *Earth and Planetary Science Letters* 457, 385-394.
- S. Albani, N.M. Mahowald, L.N. Murphy, R. Raiswell, J.K. Moore, R.F. Anderson, D. McGee, L.I. Bradtmiller, B. Delmonte, P.P. Hesse, P.A. Mayewski, 2016. **Paleodust variability since the Last Glacial Maximum and implications for iron inputs to the ocean.** *Geophysical Research Letters* 43, doi:10.1002/2016GL067911.
- S.J. Burns, L.R. Godfrey, P. Faina, D. McGee, B. Hardt*, L. Ranivoharimanana, J. Randrianasy, 2016. **Rapid human-induced landscape transformation in Madagascar at the end of the first millennium CE.** *Quaternary Science Reviews* 134, 92-99.
- L.I. Bradtmiller, D. McGee, M. Awalt, J. Evers, H. Yerxa, C.W. Kinsley*, P.B. deMenocal, 2016. **Changes in biological productivity along the northwest African margin over the past 20,000 years.** *Paleoceanography* 31, doi:10.1002/2015PA002862.
- D. McGee, G. Winckler, A. Borunda, S. Serno, R.F. Anderson, C. Recasens, A. Bory, D. Gaiero, S.L. Jaccard, M. Kaplan, J.F. McManus, M. Revel, Y. Sun, 2016. **Tracking eolian dust with helium and thorium: Impacts of grain size and provenance.** *Geochimica et Cosmochimica Acta* 175, 47-67.
- C.T. Hayes*, J. N. Fitzsimmons, E.A. Boyle, D. McGee, R.F. Anderson, R. Weisend, P.L. Morton, 2015. **Thorium isotopes tracing the iron cycle at the Hawaii Ocean Time-series station ALOHA.** *Geochimica et Cosmochimica Acta* 169, 1-16.
- M. Cross, D. McGee, W.S. Broecker, J. Quade, J.D. Shakun, H. Cheng, Y. Lu, R.L. Edwards, 2015. **Great Basin hydrology, paleoclimate, and connections with the North Atlantic: A speleothem stable isotope and trace element record from Lehman Caves, NV.** *Quaternary Science Reviews* 127, 186-198.
- E. Steponaitis*, A. Andrews*, D. McGee, J. Quade, W.S. Broecker, Y.-T. Hsieh*, B. Shuman, S.J. Burns, H. Cheng, 2015. **Mid-Holocene drying of the U.S. Great Basin recorded in Nevada speleothems.** *Quaternary Science Reviews* 127, 174-185.

- S. Albani, N.M. Mahowald, G. Winckler, R.F. Anderson, L.I. Bradtmiller, B. Delmonte, R. Francois, M. Goma, N.G. Heavens, P. P. Hesse, S. A. Hovan, K.E. Kohfeld, H. Lu, V. Maggi, J.A. Mason, P.A. Mayewski, D. McGee, X. Miao, D.R. Muhs, B.L. Otto-Bliesner, A.T. Perry, A. Pourmand, H.M. Roberts, N. Rosenbloom, T. Stevens, J. Sun, 2015. **12,000 years of dust: The Holocene global dust cycle constrained by natural archives.** *Climate of the Past* 11, 869–903.
- A. Donohoe, J. Marshall, K. Armour, D. Ferreira, D. McGee, 2014. **The inter-annual variability of tropical precipitation and inter-hemispheric energy transport.** *Journal of Climate* 27, 3377-3392.
- D. McGee, A. Donohoe, J. Marshall, D. Ferreira, 2014. **Changes in ITCZ location and cross-equatorial heat transport at the Last Glacial Maximum, Heinrich Stadial 1, and the Mid-Holocene.** *Earth and Planetary Science Letters* 390, 69-79.
- S. Serno, G. Winckler, R.F. Anderson, C.T. Hayes, D. McGee, B. Machalett, H. Ren, S.M. Straub, R. Gersonde, G.H. Haug, 2014. **Eolian dust input to the Subarctic North Pacific.** *Earth and Planetary Science Letters*, 387, 252-263.
- J. Marshall, A. Donohoe, D. Ferreira, D. McGee, 2014. **The ocean's role in setting the mean position of the Inter-Tropical Convergence Zone.** *Climate Dynamics* 42, 1967-1979.
- A. Donohoe, J. Marshall, D. Ferreira, D. McGee, 2013. **The relationship between ITCZ location and cross equatorial heat transport: From the seasonal cycle to the Last Glacial Maximum.** *Journal of Climate*, 26, 3597-3618.
- D. McGee, P.B. deMenocal, G. Winckler, J.-B. Stuut, L.I. Bradtmiller, 2013. **The magnitude, timing and abruptness of changes in North African dust deposition over the last 20,000 years.** *Earth and Planetary Science Letters*, 371-372, 163-176.
- W.S. Broecker, D. McGee, 2013. **The $\delta^{13}\text{C}$ record for atmospheric CO_2 : What is it trying to tell us?** *Earth and Planetary Science Letters*, 368, 175-182.
- D. McGee, S. Mukhopadhyay, 2013. **Extraterrestrial He in sediments: From recorder of asteroid collisions to timekeeper of global environmental changes.** In: P. Burnard (Ed.), *The Noble Gases as Geochemical Tracers*. Berlin: Springer-Verlag, p. 155-176.
- D. McGee, J. Quade, R.L. Edwards, W.S. Broecker, H. Cheng, P.W. Reiners, N. Evenson, 2012. **Lacustrine cave carbonates: Novel archives of paleohydrologic change in the Bonneville Basin (Utah, USA).** *Earth and Planetary Science Letters* 351-352, 182-194.
- D. McGee, F. Marcantonio, J.F. McManus, G. Winckler, 2010. **The response of excess ^{230}Th and extraterrestrial ^3He to sediment redistribution at the Blake Ridge, western North Atlantic.** *Earth and Planetary Science Letters* 299, 138-149.
- D. McGee, W.S. Broecker, G. Winckler, 2010. **Gustiness: the driver of glacial dustiness?** *Quaternary Science Reviews* 29, 2340-2350.
- W.S. Broecker, D. McGee, K.D. Adams, H. Cheng, R.L. Edwards, C.G. Oviatt, J. Quade, 2009. **A Great Basin-wide dry episode during the first half of the Mystery Interval?** *Quaternary Science Reviews* 28, 2557-2563.
- F. Marcantonio, D.J. Thomas, S. Woodward, D. McGee, G. Winckler, 2009. **Extraterrestrial ^3He in Paleocene sediments from Shatsky Rise: constraints on sedimentation rate variability.** *Earth and Planetary Science Letters* 287, 24-30.

- G. Winckler, R.F. Anderson, M.Q. Fleisher, D. McGee, N. Mahowald, 2008. **Covariant glacial-interglacial dust fluxes in the equatorial Pacific and Antarctica.** *Science* 320, 93-96.
- M. Siddall, R.F. Anderson, G. Winckler, G.M. Henderson, L.I. Bradtmiller, D. McGee, A. Franzese, T.F. Stocker, S.A. Müller, 2008. **Modeling the particle flux effect on distribution of ^{230}Th in the equatorial Pacific.** *Paleoceanography* 23, doi:10.1029/2007PA001556.
- D. McGee, F. Marcantonio, J. Lynch-Stieglitz, 2007. **Deglacial changes in dust flux in the eastern equatorial Pacific.** *Earth and Planetary Science Letters* 257, 215-230.

Teaching Experience

- 2012- **Massachusetts Institute of Technology**, Cambridge, MA
 Director, Terrascope First-year Learning Community
 Courses taught or co-taught: Solving Complex Problems; The History of Earth's Climate; Paleoceanography; Climate Science; Global Warming Science; Analytical Techniques for Studying Environmental and Geologic Samples; Assembling Cambridge (Freshman Advising Seminar).
 Overall rating 6.5/7 for all courses.
- 2008-2009 **High School for Arts, Imagination and Inquiry**, New York, New York
 NSF Graduate Teaching Fellow; designed and led field and lab activities.
- 2003-2004 **Marion Abramson High School**, New Orleans, Louisiana
 High school physical science teacher.
- 2002-2003, **The Ellis School**, Pittsburgh, Pennsylvania
 1997-2001 Middle and high school science/math teacher, outdoor education coordinator.
- 2001-2002 **Mennonite Central Committee**, Phnom Penh, Cambodia
 English language teacher at the Royal University of Phnom Penh.

Competitive Funding and Awards

- 2019 T. Lowenstein, D. McGee, S. Feakins, S. Lund, J. Stroup, J. Janick. Collaborative Research: Regional hydrologic and vegetation changes over the last 150 kyr in the Searles and Death Valley basins. NSF-EAR-1903544.
 K. Johnson, D. McGee. Collaborative Research: Collaborative Research: P2C2: Reconstructing Northeast Mexico Hydroclimate since the Last Interglacial Period. NSF-AGS-1804512.
- 2018 D. McGee. Novel records of high-latitude continental temperatures during past warm climates. mTerra Catalyst Fund (MIT).
- 2017 D. McGee, J. Quade. Collaborative Research: Quantifying precipitation changes in the South American subtropics over the late Pleistocene. NSF-EAR-1702588.
 S.J. Burns, D. McGee. Collaborative Research: Madagascar Caves and Paleoclimate (MADCAP), Investigating climate variability in the Southern Hemisphere of the Western Indian Ocean. NSF-AGS-1702691.
 D. McGee. Reconstructing climate change for the recent past using Mexican tree rings and cave deposits. MISTI (MIT).
 N. Scroton, D. McGee. Dominican Republic caves and climate collaboration. MISTI (MIT).

- 2016 J. Shakun, D. McGee, C. Wong. Collaborative Research: Speleothem records of permafrost thaw and paleoclimate in the North American Arctic. NSF PLR-1607968.
T. Lowenstein, D. McGee. Deep Drilling of Searles Lake Basin. Comer Science and Education Foundation.
- 2015 D. McGee, G. Winckler, P. Polissar. Collaborative Research: Insights into North African climate variability over the last 1.1 million years from dust fluxes and leaf wax isotopes. NSF OCE-1502985.
D. McGee, S. Bowring. Early Career: Technical support for a uranium-series isotope geochemistry laboratory focused on Earth's climate and surface processes. NSF EAR-1439559.
Research Support Committee Fund (MIT)
- 2014 R. Murray, D. McGee, L. Giosan. Collaborative Research: Reconstructing Interactions Between the East Asian Monsoon and Westerly Jet at Multiple Timescales via the Flux and Provenance of Eolian and Fluvial Supply. NSF EAR-1434138.
D. Rodbell, M. Abbott, M. Bush, D. McGee, Collaborative Research: Deep Drilling of Lago Junín, Perú: The Acquisition and Development of Continuous Tropical Records of Glaciation, Climate Change, and Magnetic Field Variations spanning the Late Quaternary. NSF EAR-1404414.
D. McGee, Past Southeast Asian Monsoon variability from Vietnamese stalagmites. MISTI (MIT).
- 2013 Ally of Nature Fund Award (MIT)
Research Support Committee Fund (MIT)
- 2012 D. McGee, R. Summons, C. Latorre, B. Valero-Garces, Reconstructing Climate Change in Chile Over the Last 11,000 Years. MISTI (MIT).
- 2011 D. McGee, R.L. Edwards and J. Quade, Collaborative Research: Absolute-dated records of Late Quaternary paleohydrology in the Bonneville Basin, western U.S., from novel cave archives. NSF EAR-1103379.
- 2010 D. McGee, P.B. deMenocal and G. Winckler, Mapping Saharan dust fluxes through the onset and termination of the African Humid Period in a transect of African margin cores. NSF OCE-1030784.
- 2009 NOAA Climate and Global Change Postdoctoral Fellowship
- 2008 NSF Graduate Teaching Fellowship (GK-12 program)
- 2005 NSF Graduate Research Fellowship

Field Experience

Bonneville Basin, Utah: Lake deposit and cave sampling, total 10 weeks, 2008-2013
Central Andes, Chile: Lake shoreline mapping and sampling, 2 weeks, 2015
Northern and Central Vietnam caves: Cave reconnaissance and stalagmite sampling, 4 weeks, 2014-2016
Searles and Death Valleys, California: Lake sediment drilling and shoreline sampling, 5 weeks, 2017-2020
Nahanni National Park, Northwest Territories: Cave sampling, 1 week, 2019.

Graduate Students Advised (with current positions)

Benjamin Tiger (MIT-WHOI Joint Program, 2020-)

Michaela Fendrock (MIT-WHOI Joint Program, 2017-)
Gabriela Serrato Marks (MIT-WHOI Joint Program, 2015-2020; postdoctoral researcher at MIT)
Christine Chen (MIT-WHOI Joint Program, 2013-2019; postdoctoral researcher at Caltech)
Christopher Kinsley (MIT-WHOI Joint Program, 2012-2019; postdoctoral researcher at MIT)
Elena Steponaitis (MIT, 2012-2015)

Postdoctoral Researchers Advised (with current positions)

Nicholas Scroxton (UMass and MIT, 2015-2019); postdoc at University of Dublin
Francois Tissot (MIT, 2016-2018); Asst. Professor, California Institute of Technology
Justin Stroup (MIT, 2016-2017); Asst. Professor, SUNY-Oswego
Charlotte Skonieczny (MIT, 2016); Asst. Professor, U. Paris-Sud, France
Benjamin Hardt (MIT, 2014-2015); Secondary school teacher
Christopher Hayes (MIT, 2013-2015); Asst. Professor, U. Southern Mississippi
Yu-Te (Alan) Hsieh (MIT, 2012-2013); Research Scientist, Oxford University

Professional and Volunteer Activities

- Associate Department Head for Diversity, Equity and Inclusion, 2020-
- Director, MIT Terrascope Learning Community, 2015-; program engages ~50 first-year students each year in exploring environmental challenges through project-based classes; led spring break trips examining sustainable agriculture in southwestern U.S./Navajo Nation, urban sustainability in Mexico City, and climate change adaptation in the Netherlands (terrascope.mit.edu)
- NOAA Climate and Global Change Postdoctoral Fellowship Program Steering Committee, 2014-2017; Chair, 2016-2017
- Organizer of Lorenz Center Workshop on “Water and Climate Change: Connecting the Paleoclimate Record to Future Changes”, June 2018
- MIT Sustainability Leadership Steering Committee Co-Chair, 2019-2020
- Faculty advisory board member for MIT Environmental Solutions Initiative and MIT Environment and Sustainability minor
- MIT first-year advisor, Fall 2012-present; Excellence in Mentoring Award, 2018
- Regular outreach talks to community groups; conducted paleoclimate-related outreach at Cambridge Science Festival, 2016-