

TAMARA PICO

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U.S. Citizen

Department of Earth and Planetary Sciences
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Professional Preparation

Princeton University Chemistry, A.B. *June 2014*
Certificates in Material Science & Engineering, Engineering Biology, French Language
Harvard University Earth and Planetary Sciences, A.M. *May 2017*
Harvard University Earth and Planetary Sciences, Ph.D. *expected May 2019*
Secondary field in Studies of Women, Gender, and Sexuality

Appointments

Harvard University - Earth & Planetary Sciences Graduate student *2014 -*
NSF Graduate Research Fellow (2015-2018)
Princeton University - Geosciences Field assistant *June 2014 - July 2014*
Princeton University - Complex Fluids Group Researcher *August 2013 - April 2014*

Publications

Five most closely related publications

- Pico, T.**, Mitrovica, J.X., Mix, A.C., "Two-phase flooding of the Bering Strait reflects the sea-level fingerprint of an expanding ice-free corridor", (in revision, *Nature Geoscience*).
- Pico, T.**, Mitrovica, J. X., Braun, J., & Ferrier, K. L. (2018). Glacial isostatic adjustment deflects the path of the ancestral Hudson River. *Geology*, (7), 1–4.
- Pico, T.**, Birch, L., Weisenberg, J., & Mitrovica, J. X. (2018). Refining the Laurentide Ice Sheet at Marine Isotope Stage 3 : A data-based approach combining glacial isostatic simulations with a dynamic ice model. *Quaternary Science Reviews*, 195, 171–179.
<http://doi.org/10.1016/j.quascirev.2018.07.023>
- Carlson, A. E., Tarasov, L., & **Pico, T.** (2018). Rapid Laurentide ice-sheet advance towards southern last glacial maximum limit during marine isotope stage 3. *Quaternary Science Reviews*, 196, 118–123. <http://doi.org/10.1016/j.quascirev.2018.07.039>
- Pico, T.**, Creveling, J. R., & Mitrovica, J. X. (2017). Sea-level records from the U.S. mid-Atlantic constrain Laurentide Ice Sheet extent during Marine Isotope Stage 3. *Nature Communications*, 8(May), 15612. <http://doi.org/10.1038/ncomms15612>

Other significant publications

- Dalton, A., Finkelstein, S., Forman, S., Barnett, P., **Pico, T.**, Mitrovica, J.X., "Was the Laurentide Ice Sheet significantly reduced during Marine Isotope Stage 3?" (accepted, *Geology*)
- Creveling, J. R., Mitrovica, J. X., Clark, P. U., Waelbroeck, C., & **Pico, T.** (2017). Predicted bounds on peak global mean sea level during marine isotope stages 5a and 5c. *Quaternary Science Reviews*.
- Ferrier, K. L., Li, Q., **Pico, T.**, & Austermann, J. (2018). The Influence of Water Storage in Marine Sediment on Sea-Level Change. *Geophysical Research Letters*, 45(5).
<http://doi.org/10.1002/2017GL076592>

- Ferrier, K. L., Austermann, J., Mitrovica, J. X., & **Pico, T.** (2017). Incorporating sediment compaction into a gravitationally self-consistent model for ice age sea-level change. *Geophysical Journal International*, 2010, 663–672. <http://doi.org/10.1093/gji/ggx293>
- Pico, T.**, Mitrovica, J. X., Ferrier, K. L., & Braun, J. (2016). Global ice volume during MIS 3 inferred from a sea-level analysis of sedimentary core records in the Yellow River Delta. *Quaternary Science Reviews*, 152, 72–79. <http://doi.org/10.1016/j.quascirev.2016.09.012>

Synergistic Activities

1. Scientific Service

- *Journal Reviewer*: Science Advances
- *Session Chair* International Union for Quaternary Science (INQUA) July 2019
- *Leader*, Graduate Student/Post-doc Seminar. Weekly department series. 2015-2016

2. Leadership, Mentoring, and Outreach

- *Leader*, Harvard Graduate Women in Science and Engineering Exec Board 2015-
- *Mentor*, Harvard WiSTEM Mentoring Program (undergraduate group) 2014-
- *Invited Panelist*, W.E.B du Bois Society (underrepresented minority group), Harvard Office of Career Services.
- *Invited Speaker*, Harvard Foundation Science Conference, Harvard Natural History Museum Middle School Program, Harvard Keylatch Summer Program.
- *Non-residential tutor*, Leverett (Harvard undergraduate house) 2014-
- *Tutor*, Massachusetts Correctional Institute at Framingham, New Jersey Correctional Facilities 2012-2015

3. Teaching

- *Teaching Fellow*, A Brief History of the Earth (undergraduate) Fall 2017, Spring 2017 (received Harvard University Certificate of Distinction in Teaching)
- *Teaching Fellow*, Introduction to Material Science (undergraduate) Fall 2015
- *Independent Study Adviser* (mentored undergraduate on research project) Fall 2017

Collaborators & Other Affiliations

Taylor Perron (MIT)	Jean Braun (GFZ Potsdam)
Ken Ferrier (Univ of Wisconsin)	Jacqueline Austermann (Lamont-Doherty)
Leah Birch (Woods Hole Research Center)	Jessica Creveling (Oregon State)
Qi Li (Georgia Tech)	Jamie Weisenberg (Harvard)
April Dalton (Durham University)	Sarah Finkelstein (Univ. of Toronto)
Lev Tarasov (Memorial University)	Anders Carlson (Oregon State)
Alan Mix (Oregon State)	Claire Waelbroeck (LSCE/IPSL)
Peter Clark (Oregon State)	Peter Barnett (Laurentian University)
Steve Forman (Baylor University)	Paul Bierman (Univ. of Vermont)
Natalya Gomez (McGill)	Holly Han (McGill)
Peter Huybers (Harvard)	Becca Cleveland-Stout (Harvard)

Graduate Advisor: Jerry Mitrovica (Harvard University)