

Adrian Tasistro-Hart

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Education

- 2019–2019 Ph.D. student in Earth science, **University of California**, Santa Barbara,
2019 M.S. in geophysics, **ETH Zürich**, Zürich, Switzerland
2017 B.A. in geosciences, summa cum laude (3.93), **Princeton University**, Princeton, New Jersey
2012 Oconee County High School. Watkinsville, Georgia. Salutatorian.

Awards

- 2019 **Willi Studer Prize**, ETH Zürich
» Awarded annually to the best student in each Master's degree program. CHF 3000 prize
- 2017 **Phi Beta Kappa**
- 2017 **Arthur F. Buddington Award**, Princeton Dept. of Geosciences
» Awarded annually by vote of the faculty of the Department of Geosciences to the graduating senior who has demonstrated overall excellence in the Earth sciences
- 2017 **Sheldon Judson '40/William E. Bonini '48 Teaching Award**, Princeton Dept. of Geosciences
» Awarded to the graduating senior for dedicated, quality service in support of the teaching mission of the Department of Geosciences
- 2017 **Peter W. Stroh '51 Environmental Award**, Princeton University
» Awarded annually university-wide to the student who is determined to have written the best thesis on an environmental topic. \$2000 prize
- 2016 **Benjamin F. Howell '13 Prize**, Princeton Dept. of Geosciences
» Awarded annually to a junior in the Department of Geosciences

Scholarships

- 2019–2024 **Chancellor's Fellowship**, University of California, Santa Barbara
- 2017–2019 **Excellence Scholarship and Opportunity Program**, ETH Zürich
» Awarded 44,000 CHF for proposal of Masters thesis project in geophysics
» One of 50 scholars from over 800 applicants
- 2015–2017 **Smith Newton Scholarship**, Princeton Environmental Institute
» Awarded \$15,000 for proposal of 2-year independent research project involving field work
- 2015–2017 **Hollings Scholarship**, NOAA
» Awarded \$30,000, including a paid 2-month internship in Boulder (summer 2016), advised by Carrie Morrill and Clay Tabor
- 2012–2013 **Bridge Year Program**, Princeton University
» Awarded participation in university-sponsored 9-month gap year program in Dakar, Senegal
- 2010–2011 **Congress-Bundestag Youth Exchange Program**, U.S. Department of State
» Attended Copernicus Gymnasium as exchange student during junior year of high school

Publications

- Tasistro-Hart, A., Grayver, A., & Kuvshinov, A. (2021). **Probabilistic geomagnetic storm forecasting via deep learning**. *Journal of Geophysical Research: Space Physics*, 126, e2020JA028228. <https://doi.org/10.1029/2020JA028228>
- Tasistro-Hart, A., Maloof, A., Schoene, B. & Eddy, M.P. (2020) **Astronomically Forced Hydrology of the Late Cretaceous Sub-tropical Potosí Basin, Bolivia**. *GSA Bull.*, 1–22. doi:10.1130/b35189.1

Conferences

- 2021 **Probabilistic geomagnetic storm forecasting via deep learning**
European Geophysical Union, General Assembly, Zoom
» Solicited talk, EGU21-10501
- 2019 **A Deep Learning Approach to Geomagnetic Storm Prediction**
International Union of Geodesy and Geophysics, 27th General Assembly, Montreal
» Talk IUGG19-1361
- 2017 **Astronomically Forced Hydrology of the Late Cretaceous Sub-tropical Potosí Basin, Bolivia**
American Geophysical Union, Fall Meeting, New Orleans
» Poster PP33C-2340
- 2016 **Astronomically Forced Hydrology of the Late Cretaceous Sub-Tropical Potosí Basin**
American Geophysical Union, Fall Meeting, San Francisco
» Poster PP41B-2240

Past Research Experiences

- 2015–2019 **Cyclostratigraphy of the Late Cretaceous Potosí Basin**, Princeton University
» Organized and led research field seasons in Bolivia, cumulative 3 months, during summers of 2015 & 2016, advised by Adam Maloof and Blair Schoene
» Operated drone in the field and managed a budget of \$30,000
» Presented posters at American Geophysical Union Fall 2016 & 2017 conferences
- 2016–2017 **GCM Simulations for the Late Cretaceous**, NOAA & NCAR, Boulder
» Set up and ran 5 fully coupled simulations of CESM 1.2 for a Late Cretaceous paleogeography
- 2014–2016 **Badlands Erosional Landscape Evolution**, Princeton University
» Organized and led field trip to outcrop of Mancos Shale in Utah (Jan 2016)
» Operated drone and led undergraduate field assistants in the field

Activities & Volunteer Work

- 2020–2021 **UAW 2865, University of California**
» Elected to Head Steward for UCSB, representing student-workers as a union leader
» Contributed to organization of a new union for graduate student researchers
- 2014–2017 **Princeton University Geosciences Society**
» President of the organization (2016–2017)
» Organized and led week-long departmental field trip to Maine (May 2017)
» Spearheaded 40-person week-long departmental field trip to Iceland, the first in decades, and managed \$60,000 budget for transportation, lodging, food, etc. (May 2016)
- 2015–2017 **2 Dickinson St. Co-op**, Princeton University
» Responsible for membership and facilities of 50-person eating and living co-op
» Led effort to expand on-campus eating options that culminated in the creation of a new co-op funded by the university; first such co-op in over a decade
- 2015–2016 **Princeton University Priorities Committee**
» Nominated for and served on PRICOM, a body advisory to the president and responsible for review of Princeton's operating budget and plans for university development
- 2012–2013 **Bus Route Map**, Dakar, Senegal
» Independently tracked over 50 bus routes in Dakar and created the first route map for the city
- 2012–2013 **Volunteer at Manoore FM**, Dakar, Senegal
» 20–30 hours per week
» Created website and edited sound for the community radio station
» Created and hosted own radio show in French, Wolof, and English