

Dr. Daniel Hauptvogel

Instructional Associate Professor

Department of Earth and Atmospheric Sciences - University of Houston

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Education

Institution	Degree	Year
City University of New York: The Graduate Center	Ph.D.	2015
Montclair State University	M.S.	2010
Montclair State University	B.S.	2008

Appointments

Year(s)	Title	Location
2021-present	Instructional Associate Professor	University of Houston
2015-2021	Instructional Assistant Professor	University of Houston
2015	Adjunct Assistant Professor	Queens College
2011-2015	Adjunct Lecturer/Graduate Assistant	Queens College
2010-2011	Adjunct Professor	Montclair State University
2008-2009	Graduate Teaching Assistant	Montclair State University

Teaching and Student Learning

Courses Taught

Location	Class (Times Taught)
University of Houston	GEOL 1330 Physical Geology GEOL 1370 Natural Disasters GEOL 1130 Physical Geology Lab (Instructor of Record) GEOL 1176 Historical Geology Lab (Instructor of Record) GEOL 6000 TA Training
Queens College	GEOL 521 Oceanography GEOL 101 Physical Geology Lab (TA) GEOL 102 Historical Geology Lab (TA) GEOL 239W Evolution of Ecosystems (TA) GEOL 213W Sedimentology and Stratigraphy (TA)
Montclair State University	GEOS 114 Historical Geology GEOS 162 Oceanography GEOS 125 Earth and the Environment

Education Awards and Grants

Year	Award
2023	John C. Butler Excellence in Teaching Award, University of Houston NSM

Year	Award
2022	NSF S-STEM, Award #2221654 – \$1,484,304. “Mentoring, Development, and Engagement of Diverse STEM Students at a Large, Public, Urban University”, PI: Daniel Hauptvogel
2022	UH Open Educational Resources Creation Program, \$10,000
2019	Teaching Excellence Award (Instructional Faculty), University of Houston
2019	Alternative Textbook Incentive Program, University of Houston

Education Activities

* = Collaborative effort with colleagues and/or graduate students

- Undergraduate advisor for the Geology B.S., Geophysics B.S., and Earth Science B.A. degrees, 9/2022-present
- Organized an undergraduate recruiting events for EAS every semester
- *Development of an open access lab manual for historical geology lab – [The Story of Earth: An Observational Guide](#), lead author is Hauptvogel
- Participation in a [Rebus Community](#) cohort to learn about designing and improve open educational content
- *Redesigning curriculums for GEOL 1176 and GEOL 1130 for online teaching during this pandemic
- Created a new Texas Core Curriculum course, GEOL 1370 Natural Disasters, Proposal Submitted Fall 2017, Approved Spring 2018, First Offered Spring 2019
- *Redesigned curriculum for GEOL 1176 Historical Geology Lab, Fall 2018
- Lead instructor and chief scientist for [STEMSEAS](#) (STEM Student Experiences Aboard Ships) Alaska cruise, 10/2018, [EAS News Article](#)
- *Development and improvement of virtual field trips to Galveston, Central TX, and a tour of campus building stones
- *Management of up to 72 EAS Teaching Assistants
- *Management of the Geoscience Learning Center
- Developed a teaching guide for TAs for physical geology lab.
- *Organizing and leading TA orientations before each semester (GEOL 6000).
- *Running weekly physical geology and historical geology TA meetings to discuss upcoming labs
- Participated in the McGraw Hill Teaching Without Limits: Geosciences Symposium, providing feedback on educational tools used and needed in the classroom, 3/1/18-3/3/18
- Subject Matter Expert for McGraw Hill Higher Education, making corrections to geology and geography textbook content since, creating interactive assignments, writing animation and video scripts, reviewing and editing textbook chapters
- Contract work for W W Norton, reviewing textbooks and instructor guides, creating test bank questions, reviewing interactive assignment modules

- Non-UH - Redesigned and developed new curriculum for GEOL 102 Historical Geology Lab, Queens College, CUNY, 2013

Dissertation Committees

Kamil Qureshi, Ph.D. Fall 2023 (EAS) – Member

Chandler Pippin, M.S. Spring 2023 (EAS) - Member

Delaney Robinson, Ph.D. Spring 2021 (EAS) - Member

Melissa Lobprijs, Ph.D. 2016 (College of Education) - Member

Service

Departmental Service

Committees

- Undergraduate Advisor, 9/2022-present
 - Geology B.S., Geophysics B.S., and Earth Science B.A.
- Undergraduate Studies Committee, 2022-present
- Graduate Studies Committee, 2022-present
- Scholarships and Awards Committee, 2022-present
- TA Taskforce, 2015-2022
- Sheriff Lecture Committee, 2016-present
- Merit Review Committee, 2020
- Seminar Committee, 2017-2020

Other Departmental Service

- Judging coordinator for Sheriff Lecture student poster sessions, 9/2016-present
- Dobrin Lecture student poster session judge, 2/12/2020
- UH/HGS Sheriff Lecture student poster judge, 11/15/15
- Coordinating all field trips for GEOL 1303 Physical Geology
- Leading field trips for GEOL 1303 Physical Geology, one Central TX trip almost every semester, and one to two museum tours
- Co-hosting UH seminar speaker Trevor Williams, 10/16/15
- Hosting UH seminar speakers Lauren Simkins (2/3/17) and Yunsoo Choi (2/9/18)
- Classroom observations of TAs during the semester.
- Conducting online surveys of all EAS lab students, compiling and distributing results to TAs
- Not at UH - CUNY Graduate Center, Earth and Environmental Sciences, curriculum committee student member (yearly election, 2012-2015)

College and University Service

- Teaching Excellence Award Committee, 2023-present
- Learning Abroad Scholarship Committee, 2023-present

- NSM Undergraduate Committee, 2022-present
- University Hearing Board, 2022-present
- NSM College Policy Committee, 2020
- Mentor for the NSM Transfer Student Mentor Program, 2020-2022
- Faculty advisor for Gaming and eSports registered student organization, 2018-2022
- UH Graduate Research Symposium judge, 2019
- Mentor for the Black Excellence Scholars Training program, 9/2017-5/2018
- Presenter for the Emerging Trends in Educational Technology series at UH, 9/16/16, Top Hat Learning Platform
- Participated with Cougar Movers August 2016

Community Service

- Texas [Region 4 Education Service Center](#) collaborator, provided professional development for middle school science teachers in Houston to increase knowledge in Earth science and chemistry, 7/2016-12/2017
- Houston Science and Engineering Fair judge, 2016, 2017, 2018
- Mark Twain Elementary School science fair judge 2/11/16

Research and Publications

Journal Articles

- Hauptvogel, D.**, Pekar, S., and Pincay, V., 2017, Evidence for a heavily glaciated Antarctica during the Late Oligocene "warming" (27.8-24.5 Ma): Stable isotope records from ODP Site 690, *Paleoceanography*, doi:10.1002/2016PA002972
- Levy, R., Harwood, D., Florindo, F., Sangiorgi, F., Tripathi, R., von Eynatten, H., Gasson, E., Kuhn, G., Tripathi, A., DeConto, R., Fielding, C., Field, B., Golledge, N., McKay, R., Naish, T., Olney, M., Pollard, D., Schouten, S., Talarico, F., Warny, S., Willmott, V., Acton, G., Panter, K., Paulsen, T., Taviani, M., SMS Science Team (including **Hauptvogel**), 2016, Antarctic ice sheet sensitivity to atmospheric CO₂ variations in the early to mid-Miocene, *Proceedings of the National Academy of Sciences*, v. 13, p. 3453-3458, doi:10.1073/pnas.1516030113
- Hauptvogel, D.**, Passchier, S., 2012, Early-Middle Miocene (17-14 Ma) Antarctic ice dynamics reconstructed from the heavy mineral provenance in the AND-2A drill core, Ross Sea, Antarctica. *Global and Planetary Change*, v. 82-83, p. 38-50, doi:10.1016/j.gloplacha.2011.11.003

Textbooks

- Hauptvogel, D.**, and Sisson, V., 2021, *The Story of Earth: An Observational Guide*, open access via UH Pressbooks and Print-on-Demand via Lulu Press.
- Plummer, C.C., Carlson, D.H., and Hammersley, L. (including **Hauptvogel** as a contributing author), 2021, *Physical Geology*, Seventeenth Edition, McGraw Hill

Invited Presentations

- Hauptvogel, D.**, 2017. Paleooceanography and paleoclimatology of the Late Oligocene "warming" (27.8-24.5 Ma): A stable isotope investigation of ODP Site 690 from the Maud Rise, Antarctica. Texas Southern University department seminar 2/2017.
- Hauptvogel, D.**, 2016. Evidence for Significant Glaciation on West Antarctica during the Late Oligocene "warming". University of Houston EAS department seminar 11/2016.

Oral Presentations

- Hauptvogel, D.**, and Sisson, V., 2022. Promoting diversity, equity, inclusion, and accessibility in introductory geology courses through open-access materials and virtual field trips. Geological Society of America South-Central Conference, 3/15/2022 (online).
- Sisson, V., and **Hauptvogel, D.**, 2021, Telling the story of Earth using place-based exercises for historical geology. Geological Society of America Connects, 10/2021 (online)
- Ramon Dueñas, C., Sisson, V., Wellner, J., Lytwyn, J. and **Hauptvogel, D.**, 2019, Discovering the upper Texas coast by virtual field trip, Geological Society of America Abstracts, Vol. 5, No. 5, doi: 10.1130/abs/2019AM-340564
- Hauptvogel, D.**, 2015. Late Oligocene Provenance Records from the Antarctic Continental Margin. University of Houston EAS Sedimentary & Stratigraphy Seminar.
- Hauptvogel, D.**, 2015. The State of the Oligocene Icehouse World: Sedimentology, Provenance, and Stable Isotopes of Marine Sediments from the Antarctic Continental Margin. Queens College SEES Colloquium.
- Hauptvogel, D.**, 2010. Ice Sheet Dynamics of the Past 17 Ma in Southern McMurdo Sound, Antarctica: A Heavy Mineral Analysis. Northeastern/Southeastern Geological Society of America Conference, Baltimore, MD, 13-16 March, 2010.
- Hauptvogel, D.**, 2009. Ice Flow Dynamics of the past 17 Ma in Southern McMurdo Sound, Antarctica: A Heavy Mineral Analysis. Presented at two events: ¹Sustainability Lecture Series and ²Sigma Xi Student Research Symposium, Montclair State University.

Poster Presentations

- Sisson, V.**, and Hauptvogel, D., 2021, How to tell the Story of the Earth: Three lab exercises for historical geology. Earth Educators Rendezvous, 7/2021 (online)
- Hauptvogel D.**, Pekar S., 2014. Evidence for West Antarctic glaciation during the Late Oligocene (~26-23 Ma): ⁴⁰Ar/³⁹Ar ages of ice-rafted debris from DSDP Site 270, Ross Sea. AGU Fall Meeting 2014.
- Hauptvogel D.**, Pekar S., 2013. Sensitivity of Ice Sheet Extent in a Higher CO₂ World: An Oligocene Ice Rafted Debris Study from IODP Site U1356, Wilkes Land, Antarctica. AGU Fall Meeting 2013.
- Hauptvogel D.**, Pekar S., 2012. Dynamic Ice-sheet Changes during the Oligocene along the Wilkes Land Margin, Antarctica: An Ice Rafted Debris Record from IODP Expedition 318 Site U1356. AGU Fall Meeting 2012.
- Hauptvogel, D.**, Passchier, S., 2011. Early-Middle Miocene (17-14 Ma) Antarctic Ice Dynamics Reconstructed From The Heavy Mineral Provenance In AND-2A, Ross Sea, Antarctica. Abstract PO3.3, International Symposium for Antarctic Earth Sciences, <http://www.isaes2011.org.uk/programme.html>
- Hauptvogel, D.**, Passchier, S., 2010. Ice Sheet Dynamics of the Past 17 Myr in Southern McMurdo Sound Antarctica: A Heavy Mineral Analysis. ANDRILL SMS Workshop, Erice, Italy, 7-11 April, 2010.

Hauptvogel, D., Darley, J. 2008. Heavy mineral analysis of offshore sediment cores, East Antarctica. Northeastern Geological Society of America Conference, Buffalo, NY, 27-29 March, 2008.

Research Appointments

Year(s)	Title	Location
2011-2014	Research Assistant	Queens College
2011	Research Assistant	Montclair State University
2008-2010	Graduate Research Assistant	Montclair State University
2007-2008	Undergraduate Research Assistant	Montclair State University

Collaborations and Affiliations

Donna Stokes (UH); Donna Pattison (UH); Cheryl Craig (TAMU); Stephen Pekar (Queens College, PhD advisor); Sidney Hemming (LDEO); Trevor Williams (TAMU); Tina van de Fleirdt (Imperial College); Sandra Passchier (Montclair State, M.S. Advisor); Sharon Cooper (LDEO); Antarctic Geologic Drilling (ANDRILL); Integrated Ocean Drilling Program (IODP); Geological Society of America, American Geophysical Union

Research Funding and Awards

Year	Award
2016	New Faculty Research Grant, University of Houston
2015	Queens College SEES Gural Scholarship
2014-2015	CUNY Graduate Center Dissertation Year Fellowship
2011-2014	Queens College Grad B Assistantship
2011-2013	CUNY 2-year Half Science Fellowship
2011	International Symposium of Antarctic Earth Science Travel Grant
2010	Geological Society of America Student Travel Grant
2008	Most outstanding undergraduate research award, Montclair State University
2007	Best poster presentation, Montclair State University Sigma Xi Student Research Symposium