

David P. Pompeani

Assistant Researcher

Department of Natural Resources and Environmental Management

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Education

<u>Degree</u>	<u>University</u>	<u>Major</u>
PhD	University of Pittsburgh	Geology and Environmental Science
BS	University of Pittsburgh	Geology and Environmental Science

Professional Appointments

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Assistant Researcher	Dept. of Natural Resources and Environmental Management, University of Hawaii at Mānoa	Dec 2023 to present
Lecturer	Geography and Environment University of Hawai'i at Mānoa	Aug 2022 to Dec 2024
Adjunct Professor	Geology Kansas State University	Sept 2020 to Aug 2023
Online Adjunct Professor	School of Geosciences University of Louisiana at Lafayette	Jan 2021 to May 2021
Postdoctoral Research Associate and Instructor	Geography, Kansas State University	Aug 2019 to Sept 2020
Visiting Assistant Professor	Geography, Kansas State University	Jan 2019 to May 2019
Postdoctoral Researcher	Geography, Kansas State University	Jan 2018 to Dec 2018
Senior Distiller 2017	Pittsburgh Distilling Company	Sept 2015 to Dec
Graduate Student Researcher/ Teaching Fellow	Geology and Environmental Science, University of Pittsburgh	July 2014 to May 2015

Mellon Predoctoral Fellowship	Geology and Environmental Science, University of Pittsburgh	Sept 2013 to May 2014
Graduate Student Researcher/ Teaching Fellow	Geology and Environmental Science University of Pittsburgh	Jan 2010 to Sept 2013
Svalbard Research Experience for Undergraduates	National Science Foundation, University Centre in Svalbard	July 2008 to Aug 2008

Courses Taught

Course ID and name (credits)

GEO 104	Digital Earth (3)	University of Hawai'i
GEO 101	The Natural Environment (3)	University of Hawai'i
ENVS 377	Air Quality	Louisiana State University at Lafayette
ENVS 310	Field Techniques	Louisiana State University at Lafayette
GEOL 010	Earth in Action	Kansas State University
GEOG 445	Biogeography	Kansas State University
GEOG 121	Physical Geography	Kansas State University
GEOL 0871	Intelligent Life in the Universe	University of Pittsburgh
GEOL 0015	Introduction to Geology	University of Pittsburgh
GEOL 0820	Natural Disasters	University of Pittsburgh

Presentations

Pompeani DP, Beilman D (2024) Long-term Causes and Consequences of Changing Fire regimes in the Hawaiian Islands [Oral presentation]. *Annual Meeting of the Association of American Geographers*, Honolulu, HI, USA

Publications (reverse chronological order)

Marcotte AL, Limpens J, Belcher CM, Chiverrell RC, Clay GD, Doerr SH, Khamis K, Magnusson RI, Neris J, Nunes JP, **Pompeani DP**, Santin C, Shuttleworth EL, Ullah S, Warburton J, Kettridge N (*accepted*) Potable water sources in a contaminated temperate peatland resistant to acute impacts but vulnerable to legacy effects of extreme wildfire. *Environmental Research: Water*

Pompeani DP, Temme A, Gosse J (2025). ^{10}Be Exposure Dates from pre-Illinoian Glacial Erratics Deposited near the Southern Terminus of the Laurentide Ice Sheet. *Geological Society of America Bulletin*, doi:10.1130/B37417.1

Vall K, Murphy C, **Pompeani DP**, Steinman BA, Schreiner KM, Bain DJ, DePasqual S, Wagner Z (2022). Ancient mining pollution detected in early to middle Holocene lake sediments from the Lake Superior region. *Anthropocene* 39, doi: doi.org/10.1016/j.ancene.2022.100348

Pompeani DP, Bird BW, Gilhooly WP, Hillman AL, Finkenbinder MS, Abbott MB (2021). Severe Little Ice Age drought in the midcontinental United States during the Mississippian abandonment of Cahokia. *Scientific Reports* 11, doi: 10.1038/s41598-021-92900-x

Pompeani DP, Steinman BA, Abbott MB, Pompeani KM, Reardon W, DePasqual S, Mueller RH (2021). On the Timing of the Old Copper Complex in North America: A Comparison of Radiocarbon Dates from Different Archeological Contexts. *Radiocarbon* 63, doi: 10.1017/RDC.2021.7

Pompeani DP, McLauchlan KK, Chileen BV, Calder WJ, Shuman BN, Higuera PE (2020). The biogeochemical consequences of late Holocene wildfires in three subalpine lakes from northern Colorado. *Quaternary Science Reviews* 236, doi: 10.1016/j.quascirev.2020.106293

Pompeani DP (2019). Lead pollution can be detected in North America for thousands of years. *Geology* 47, doi: 10.1130/focus122019.1

Pompeani DP, McLauchlan KK, Chileen BV, Wolf KD, Higuera PE (2019). Variation of key elements in soils and plant tissues from the fire-affected subalpine forests of the northern Rocky Mountains, U.S.A. *Biogeosciences Discussions*, doi: 10.5194/bg-2018-443

Pompeani DP, Hillman AL, Finkenbinder MS, Bain DJ, Correa-Metrio A, Pompeani KM, Abbott MB (2019). The environmental impact of a Pre-Columbian city based on geochemical insights from lake sediment cores recovered near Cahokia. *Quaternary Research* 91, doi: 10.1017/qua.2018.141

Pompeani DP, Cooke CA, Abbott MB, Drevnick PE (2018). Climate, fire, and vegetation mediate mercury delivery to mid-latitude lakes over the Holocene. *Environmental Science and Technology* 52, doi: 10.1021/acs.est.8b01523

Rossi RJ, Bain DJ, Hillman AL, **Pompeani DP**, Finkenbinder MS, Abbott MB (2017). Reconstructing early industrial contributions to legacy trace metal contamination in Southwestern Pennsylvania. *Environmental Science and Technology* 51, doi: 10.1021/acs.est.6b03372

Bird B, Lei Y, Perello M, Polissar P, Yao T, Finney B, Bain D, **Pompeani D**, Thompson L (2016). Late Holocene Indian summer monsoon variability revealed from a 3,300-year-long lake sediment record from Nir'pa Co, southeastern Tibet. *Holocene* 26, doi: 10.1177/0959683616670220

Steinman BA, **Pompeani DP**, Abbott MB, Ortiz JD, Stansell ND, Mihindukulasooriya L, Hillman A, Finkenbinder M (2016). Oxygen isotope records of Holocene climate variability in the Pacific Northwest. *Quaternary Science Reviews* 142, doi: 10.1016/j.quascirev.2016.04.012

Mihindukulasooriya LN, Ortiz JD, **Pompeani DP**, Steinman BA, Abbott MB (2015). Late Quaternary paleohydrologic conditions in southeastern British Columbia by VIS derivative spectroscopy of Cleland Lake sediment. *Quaternary Research* 83, doi: 10.1016/j.yqres.2015.02.003

Pompeani DP, Abbott MB, Bain DJ, DePasqual S, Finkenbinder MS (2015). Copper mining on Isle Royale 6500 to 5400 years ago identified using sediment geochemistry from McCargoe Cove, Lake Superior. *Holocene* 25, doi: 10.1177/0959683614557574

Bird BW, Polissar PJ, Lei Y, Thompson LG, Yao T, Finney BP, Bain DJ, **Pompeani DP**, Steinman BA (2014). A Tibetan lake sediment record of Holocene Indian summer monsoon variability. *Earth and Planetary Science Letters* 399, doi: 10.1016/j.epsl.2014.05.017

Steinman BA, Abbott MB, Mann ME, Ortiz JD, Feng S, **Pompeani DP**, Stansell ND, Anderson L, Finney BP, Bird BW (2014). Ocean-atmosphere forcing of centennial hydroclimate variability in the Pacific Northwest. *Geophysical Research Letters* 41, doi: 10.1002/2014GL059499

Fletcher MS, Wolfe BB, Whitlock C, **Pompeani DP**, Heijnis H, Hablerle SG, Gadd PS, Bowman DMJS (2013). The Legacy of Mid Holocene Fire on a Tasmanian Montane Landscape. *Journal of Biogeography* 41, doi: 10.1111/jbi.12229

Pompeani DP, Abbott MB, Steinman BA, Bain DB (2013). Lake Sediments Record Prehistoric Lead Pollution Related to Early Copper Production in North America. *Environmental Science and Technology* 47, doi: 10.1021/es304499c

Pompeani DP, Steinman BA, Abbott MB (2012). A Sedimentary and Geochemical Reconstruction of Water Level Changes from Rantin Lake, Yukon, Canada. *Journal of Paleolimnology* 48, doi: 10.1007/s10933-012-9602-9