CURRICULUM VITAE

Tal Y. Shutkin

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EDUCATION

2023-Present	Ph.D. (expected 2026), Geography
	The Ohio State University, Columbus, OH
	Dissertation Title: Glacier Change and Social Hydrology of the Cordillera
	Huaytapallana, Perú
	Candidacy Exam: October 2024
	Committee: Bryan Mark (advisor), Zhengyu Liu, Kendra McSweeney
	GPA: 4.0
2020-2022	M.A., Geography
	The Ohio State University, Columbus, OH
	M.A. Thesis Title: Multi-Temporal Glacier-Climate Interactions in Peru's
	Queshque Valley (~10°S): Modeling Contemporary Glacier Change and
	Interpreting Geomorphic Evidence of Holocene Climate History
	GPA: 4.0
2015-2019	B.S., Environment and Natural Resources
	The Ohio State University, Columbus, OH
	GPA: 3.94

AWARDS AND ACHIEVEMENTS/ SCHOLARSHIPS/ GRANTS

External	
2024	Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship, U.S.
	Department of Education.
2023	Thriving Earth Exchange Community Science Fellowship, American
	Geophysical Union. Serving as liaison for community near Trussville, AL
	working with scientists to develop a project addressing their environmental
	justice concerns.
2022	NSF Graduate Student Geoscience Grant, Geological Society of America.
	Grant covering expenses for laboratory analysis of lake sediment cores.
2021	Graduate Student Scholarship, Water Managers Association of Ohio. Grant
	covering field expenses for water sample collection.
2019	Undergraduate Research Paper Competition Winner, Political Ecology
	Working Group, University of Kentucky, KY
2017	Udall Scholarship, The Udall Foundation. Competitive national scholarship
	awarded to select undergraduate students from each state showing promise in
	the environmental and/or tribal governance fields.

The Ohio State University

2024	ENGIE-Axium Curricular Practical Training Scholarship, Graduate
	School. Nominated by Department of Geography to cover summer semester
	enrollment.
2020	University Fellowship, Graduate School. Prestigious award covering tuition
	and stipend for one year of graduate studies.
2019	Honors Scholarship, School of Environment and Natural Resources. For
	fieldwork in British Columbia for undergraduate thesis.
2019	Undergraduate Research Scholarship, College of Arts and Sciences. For
	fieldwork in British Columbia for undergraduate thesis.
2018	International Research Grant, College of Arts and Sciences. For fieldwork
	in British Columbia for undergraduate thesis.
2018	Academic Enrichment Grant, Office of International Affairs. For fieldwork
	in British Columbia for undergraduate thesis.
2017	Katherine Weisner Scholarship, School of Environment and Natural
	Resources. Four-year partial scholarship for undergraduates.

PUBLICATIONS

2024	Mark, B. G., Stansell, N. D., Shutkin, T. Y. , & Schoessow, F. (2024). Glaciation and the Environments of the Cordillera Blanca. In V. Vilímek, B. Mark, & A. Emmer
	(Eds.), Geoenvironmental Changes in the Cordillera Blanca, Peru (pp. 95–115).
	Springer International Publishing. https://doi.org/10.1007/978-3-031-58245-5_6
2023	Stansell, N. D., Abbott, M. B., Diaz, M. B., Licciardi, J. M., Mark, B. G., Polissar, P.
	J., Rodbell, D. T., & Shutkin, T. Y. (2023). Pre-industrial Holocene glacier
	variability in the tropical Andes as context for anthropogenically driven ice retreat.
	Global and Planetary Change, 229. https://doi.org/10.1016/j.gloplacha.2023.104242
2022	Stansell, N. D., Mark, B. G., Licciardi, J. M., Rodbell, D. T., Fairman, J. G.,
	Schoessow, F. S., Shutkin, T. Y., & Sorensen, M. (2022). Energy mass balance and
	flow modeling of early Holocene glaciers in the Queshque valley, Cordillera Blanca,
	Peru. Quaternary Science Reviews, 281.
	https://doi.org/10.1016/j.quascirev.2022.107414
2022	Price, B. N., Stansell, N. D., Fernández, A., Licciardi, J. M., Lesnek, A. J., Muñoz,
	A., Sorensen, M. K., Jaque Castillo, E., Shutkin, T. Y., Ciocca, I., & Galilea, I.
	(2022). Chlorine-36 Surface Exposure Dating of Late Holocene Moraines and
	Glacial Mass Balance Modeling, Monte Sierra Nevada, South-Central Chilean Andes
	(38°S). Frontiers in Earth Science, 10.

https://www.frontiersin.org/articles/10.3389/feart.2022.848652

PRESENTATIONS

Papers Presented

2023 (Dec.) "Temperature-Driven Retreat of a Tropical Glacier Exacerbated by Proglacial Lake Feedbacks," 2023 American Geophysical Union Annual Meeting, San Francisco, CA

- 2023 (Jun.) "Un Intercambio de Conocimiento Glaciologico entre ANA y OSU," guest lecture delivered at Universidad Nacional Santiago Antúnez de Mayolo Department of Geography, Huaraz, Perú
- 2022 (Sep.) "Calibrating and Applying Open-Sourced Model Tools for Testing Tropical Glacier Paleoglacier Model Forcing," International Mountain Conference, University of Innsbruck, Austria

Posters Presented

2024 (Dec.)	"Synthesizing the Last Glacial to Holocene Tropical Glacier History of Central
	Peru's Chinchaycocha Basin using a Distributed Ice Flow Model," 2024
	American Geophysical Union Annual Meeting, Washington, D.C.
2023 (Dec.)	"Modeling Tropical Andean Paleoglacier Advances during the Local Last
	Glacial Maximum of Central Perú," 2023 American Geophysical Union
	Annual Meeting, San Francisco, CA
2023 (Mar.)	"Cascading Climate Impacts on Montana's Beartooth Plateau," American
	Association of Geographers Annual Meeting, Denver, CO

FIELD RESEARCH EXPERIENCE

Junín, Perú. Preliminary research including water sampling and
reconnaissance in the Cordillera Huaytapallana and Huancayo area. (14 days)
Concepción, Chile. Cold-Blooded: Drivers of Climate Change Refugia for
Glaciers and Streamflow Responses. With advisor B. Mark and colleagues
from Universidad de Concepción. Glaciological monitoring and participating
in professional exchanges between Chilean journalists and scientists in
Spanish. Funded by the Chilean Agencia Nacional de Investigación y
<i>Desarrollo</i> (<u>10 days</u>).
Junín, Perú. Climate Forcings of the Local Last Glacial Maximum in the
Junín Region of Perú. With advisor B. Mark and others. Sampling moraines
and other glacial deposits for exposure dating using state-of-the-art methods.
Funded by the National Science Foundation (<u>10 days</u>).
Ancash, Perú. Glacio-hydrological Change in Perú's Cordillera Blanca.
Synoptic water chemistry survey, glacier mapping and surveying using
ground-penetrating radar. Funded by the National Science Foundation. (11
days). with the Peruvian National Water Authority (ANA) conducted
entirely in Spanish) (<u>3 days</u>).
Tartu, Estonia. International Research Experience for Undergraduates US-
Estonia Climate Research Partnership. Graduate assistant for lake and peat
sediment coring with N. Stansell (<u>21 days</u>).
Junín, Perú. Climate Forcings of the Local Last Glacial Maximum in the
Junín Region of Perú. With advisor B. Mark and others (10 days).
Montana, USA. Mixed Methods Assessment of Hydroclimatic Changes in
Alpine Glacier and Lake Systems of the Beartooth Plateau. STEM+ART
survey of high alpine glacier-environmental changes organized in
collaboration with graduate students across multiple universities and
community organizations. Funded by Wild Montana (6 days).

2021 (Aug.)	Nevada, USA. Great Basin Experience. With advisor B. Mark. Investigating
	water chemistry, microclimate, and rock glacier changes. Funded by the
	National Parks Foundation (7 days).
2019 (Aug.)	Alaska, USA. Enhancing Tribal Resilience through Community-based
	Monitoring and Planning. With Yukon River Inter-Tribal Watershed Council
	(YRITWC). Erosion, drinking water quality, and permafrost monitoring.
	Funded by the Bureau of Indian Affairs.
2019-20	Alaska, USA. Indigenous Observation Network. Water quality monitoring on
(Continuous)	behalf of (YRITWC). Water sample collection and logistics management.
	Funded by the National Science Foundation.
2018	British Columbia, Canada. Indigenous Politics of Collaborative
(JulAug)	Conservation at the Muskwa-Kechika Management Area. Interviewing
	community conservation stakeholders for undergraduate honors thesis. Funded
	by The Ohio State University (<u>35 days</u>).

PROFESSIONAL EXPERIENCE

Academic

Acaucinic	
2023 - present	Graduate Teaching Associate, Department of Geography, The Ohio State
	University (Courses Taught: GEOG 5900, GEOG 2800)
2022	Graduate Research Assistant for International Research Experience for
	Undergraduates US-Estonia Climate Research Partnership, Northern Illinois
	University, IL
2020-2022	Graduate Research Associate, Department of Geography, The Ohio State
	University. Funded by NSF Award EAR-2002541: Transient forcing of the
	Local Last Glacial Maximum in the tropical Peruvian Andes.
Non-Academic	
2023-present	Thriving Earth Exchange Community Science Fellow, American
1	Geophysical Union. Serving as liaison for community near Trussville, AL
	working with scientists to develop a project addressing their environmental
	justice concerns
2019-2020	Environmental Coordinator, Yukon River Inter-Tribal Watershed Council.
	Environmental monitoring, solid waste management, and tribal sustainability
	programming in central Alaska

PROFESSIONAL AFFLIATIONS

American Geographical Society (AGS)
American Association of Geographers (AAG)
American Geophysical Union (AGU)
Geological Society of America (GSA)
Water Management Association of Ohio (WMAO)