

Mae Saslaw

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Curriculum Vitae

Education

Doctor of Philosophy, Geosciences Expected 2025
Stony Brook University, Stony Brook, New York

Bachelor of Science, Geology 2017 – 2019
Magna Cum Laude
Portland State University, Portland, Oregon

Bachelor of Fine Arts, Writing 2005 – 2009
Highest Honors, Department Award for Academic Achievement
Pratt Institute, Brooklyn, New York

Research

Graduate Research Assistant Fall 2019 – Present
Clumped isotope paleoclimate records from Miocene soil carbonates, Turkana Basin, Kenya
Advisor: Gregory Henkes
Stony Brook University Department of Geosciences

NSF Research Experience for Undergraduates Summer 2018
Stable isotopes of surface water across Sauvie Island, Oregon
Advisor: John Bershaw
Portland State University Center for Climate and Aerosol Research

Teaching

Guest Lecturer, Isotope Geochemistry Spring 2023 & 2024
Stony Brook University Department of Geosciences

Guest Lecturer, Climate change and human evolution Spring 2022 & 2023
Stony Brook University Department of Anthropology

Teaching Assistant, General Chemistry Fall 2020
Stony Brook University Department of Chemistry

Teaching Assistant, Stratigraphy and Sedimentology Spring 2020
Stony Brook University Department of Geosciences

Teaching Assistant, Geology Field School Fall 2019
Turkana Basin Institute and Stony Brook University

Teaching Assistant, Field Geology Fall 2019
Stony Brook University Department of Geosciences

Invited Talks

Brown University — Climate and Environment Lunch Bunch Series Spring 2024

City College of New York — Earth and Atmospheric Science Seminar Fall 2023

Stony Brook University — Society for Women in Marine Science Speaker Series Fall 2023

Awards

Three Minute Thesis Finalist Stony Brook University	2023
Distinguished Travel Award Stony Brook University Graduate Student Organization	2022
Excellence in Teaching Award Stony Brook University Department of Geosciences	2021
David E. King Field Work Award Stony Brook University Department of Geosciences	2020 & 2019
Pieper Merit Award Stony Brook University Graduate School	2019
Best Poster Association of Engineering Geologists Oregon Chapter Student Poster Night	2019

Leadership

Graduate Peer Mentor Program Coordinator Stony Brook University Department of Geosciences	2024 – Present
Graduate Seminar Coordinator Stony Brook University Department of Geosciences	2023 – Present
Organizer, Communications Workers of America Local 1104 New York	2020 – Present
Graduate Student Liaison Stony Brook University Department of Geosciences	2021 – 2023
Founding Vice Chair, Young Democratic Socialists of America Portland State University	2017 – 2018
Senator, Associated Students of Portland State University Portland State University	Spring 2018

Professional Activities

Co-Convener, Exploring changes in climate, flora, and fauna of Africa through the Cenozoic Geological Society of America Connects, Pittsburgh, PA	2023
Participant, Preparing for an Academic Career in the Geosciences National Association of Geoscience Teachers Earth Educators' Rendezvous	2023

Professional Organizations

International Society of Nonbinary Scientists	2021 – Present
Geological Society of America	2019 – Present
American Geophysical Union	2018 – Present

Publications

Saslaw, M., Munoz, A., Stinchcomb, G., Minya, A., Shedroff, S., Esber, R., Batlay, A., Liutkus-Pierce, C., Miller, E., Beck, C. C., Feibel C. S., Henkes, G. A. Late Early Miocene paleoclimate and paleoenvironments in the Turkana Basin from pedogenic carbonate isotope geochemistry. (*in preparation*)

Saslaw, M., Yang, D., Lee, D., Poulsen, C. J., Henkes, G. A. An Isotope Mass Balance Analysis of Evaporative Loss From Lake Turkana, Kenya Using $\delta^{18}\text{O}$ and δD of Natural Waters. 2024. *Water Resources Research*, 60(6).

<https://doi.org/10.1029/2023WR036076>

Jimenez, A., Bershaw, J., **Saslaw, M.**, Gall, S., Rahalski, E. 2023. Evaluating the Efficacy of Manmade Canals at Maintaining Lake Habitats for Salmon and Birds Using Seasonal Variations in Isotopes of Meteoric Water. ESS Open Archive.

<https://doi.org/10.22541/essoar.168926403.34465563/v1>

Sousa, F. J., Cox, S. E., Hemming, S. R., Rasbury, E. T., Steponaitis, E., Hatton, K., **Saslaw, M.**, Henkes, G., Princehouse, P., Vitek, N. S., Nengo, I. 2022. New Discovery of Oligocene Strata in the Topernawi Formation, Turkana County, Kenya. *Frontiers in Earth Science*, 10. <https://doi.org/10.3389/feart.2022.799097>

Presentations

Saslaw, M., Munoz, A., Stinchcomb, G., Minya, A., Shedroff, S., Esber, R., Batlay, A., Liutkus-Pierce, C., Miller, E., Beck, C., Feibel, C., Henkes, G. 2024. Paleoenvironmental Interpretations of Stable Isotopes From Miocene Pedogenic Carbonates with Diagenetic Calcite Components. 9th International Clumped Isotope Workshop, Stony Brook University.

Saslaw, M., Stinchcomb, G., Shedroff, S., Minya, A., Liutkus-Pierce, C., Miller, E., Beck, C., Feibel, C., Henkes, G. 2024. Soil carbonates reveal paleoenvironments characterized by hot temperatures and C3 vegetation in the late Early Miocene, Turkana Basin, Kenya. Miocene Climate Workshop: Exploring New Directions in Miocene Earth System Connections, University of Arizona.

Saslaw, M., Lee, D., Poulsen, C., Liutkus-Pierce, C., Stinchcomb, G., Shedroff, S., Beck, C., Feibel, C., Miller, E., Henkes, G. 2023. Insights from ~17 Ma soil carbonate stable isotopes and GCM results in the Turkana Basin, Kenya. Geological Society of America *Abstracts with Programs*, v. 55, no. 6.

Mengesha, M., Bedaso, Z., Beverly, E., Cerling, T., Henkes, G., Quade, J., Rogers, M., **Saslaw, M.**, Semaw, S., Levin, N. 2023. Assessing water stress using triple oxygen isotopes in soil carbonates in the Awash and Turkana regions of eastern Africa during the Pliocene and Pleistocene. Geological Society of America *Abstracts with Programs*, v. 55, no. 6.

Esber, R., Stinchcomb, G., Beck, C., Mana, S., Batlay, A., Minya, A., **Saslaw, M.**, Beverly, E., Feibel, C., Henkes, G. 2023. Paleoenvironmental reconstruction of Locherangan, a Miocene fossil bearing locality, Turkana Basin, Kenya. Geological Society of America *Abstracts with Programs*, v. 55, no. 6.

(Continued)

- Batlay, A., Stinchcomb, G., Rowan, J., Beck, C., **Saslaw, M.**, Henkes, G. 2023. Exploring post-depositional processes in Late Miocene paleosols at Lothagam, Turkana Basin, Kenya. Geological Society of America *Abstracts with Programs*, v. 55, no. 6.
- Hatton, K., Rasbury, T., Henkes, G., **Saslaw, M.**, Wooton, K., Hemming, S., Cox, S., Sousa, F., Rossie, J., Cote, S., Russo, G., Miller, E., Kappelman, J. 2023. Hydrothermal carbonates from Turkana, Kenya, preserve evidence of an unusual Middle Miocene thermal fluid pulse. Geological Society of America *Abstracts with Programs*, v. 55, no. 6.
- Bershaw, J., Jimenez, A., Greenwood, C., Petersen, N., **Saslaw, M.**, Mygatt, C. 2023. Stable Isotopes of Modern Water ($\delta^2\text{H}$ and $\delta^{18}\text{O}$) across the Pacific Northwest, USA: A Framework for Understanding Past, Present, and Future Climate. *Goldschmidt Abstracts*.
- Saslaw, M.**, Liutkus-Pierce, C., Stinchcomb, G., Shedroff, S., Uno, K.T, Tweedy, R., Beck, C., Feibel, C., Miller, E., Henkes, G. 2022. Soil carbonate clumped isotope temperatures and paleoenvironmental interpretations from the Miocene of the Turkana Basin, East Africa. Geological Society of America *Abstracts with Programs*, v. 54, no. 5.
- Stinchcomb, G, Liutkus-Pierce, C., Beck, C., **Saslaw, M.**, Shedroff, S., Minya, A., Winget, M., Tweedy, R., Rowan, C.M., Mana, S., Feibel, C., Henkes, G., Uno, K.T. 2022. Early Miocene climate and landscape change inferred from paleosols at Loperot, West Turkana, Kenya. Geological Society of America *Abstracts with Programs*, v. 54, no. 5.
- Saslaw, M.**, Henkes, G., Beck, C., Liutkus-Pierce, C., Feibel, C., Rowan, C.M., Boyd, M. 2021. Middle and Late Miocene paleoclimates from clumped isotopes of soil carbonates, Turkana Basin, East Africa. American Geophysical Union Fall Meeting.
- Jimenez, A., Bershaw, J., Gall, S., **Saslaw, M.** 2021. Using Isotope Tracers of Meteoric Water to Investigate the Effects of Hydraulic Restoration on Water Flux Across a Large River Island. American Geophysical Union Fall Meeting.
- Jimenez, A., Bershaw, J., Gall, S., **Saslaw, M.** 2021. Investigating the effects of hydrologic restoration on water flux across Sauvie Island, Oregon. Geological Society of America *Abstracts with Programs*, v. 53, no. 6.
- Henkes, G., **Saslaw, M.**, Feibel, C. 2020. Persistent warmth in the Turkana Basin, Kenya, from the Late Miocene until present day. American Geophysical Union Fall Meeting.
- Hatton, K., Rasbury, T., Henkes, G., **Saslaw, M.**, Wooton, K., Sousa, F., Cox, S., Steponaitis, E., Hemming, S.R., Cote, S., Northrup, P., Nengo, I., Present, T., Princehouse, P., Rossie, J.B., Tappero, R. 2020. U-Pb Dating of Oligocene-Miocene Petrified Wood Carbonates from the Turkana Basin, Kenya. American Geophysical Union Fall Meeting.
- Saslaw, M.** and Bershaw, J. 2018. Mixing of the Willamette and Columbia Rivers across Sauvie Island, Oregon based on stable isotopes ($\delta^{18}\text{O}$ and δD) of surface water. American Geophysical Union Fall Meeting.