Mae Saslaw

Curriculum Vitae

saslaw.github.io
mae.saslaw@stonybrook.edu

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

Teaching Assistant, Sedimentation and Stratigraphy — Spring 2020 & 2025
Stony Brook University Department of Geosciences

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, 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 — 2023
Stony Brook University

Distinguished Travel Award — 2022
Stony Brook University Graduate Student Organization

Excellence in Teaching Award — 2021
Stony Brook University Department of Geosciences

David E. King Field Work Award — 2019 & 2020
Stony Brook University Department of Geosciences

Pieper Merit Award — 2019
Stony Brook University Graduate School

Best Poster — 2019
Association of Engineering Geologists Oregon Chapter Student Poster Night

Leadership

Graduate Peer Mentor Program Coordinator — 2024 – Present
Stony Brook University Department of Geosciences

Graduate Seminar Coordinator — 2023 – Present
Stony Brook University Department of Geosciences

Organizer, Communications Workers of America — 2020 – Present
Local 1104 New York

Graduate Student Liaison — 2021 – 2023
Stony Brook University Department of Geosciences

Founding Vice Chair, Young Democratic Socialists of America — 2017 – 2018
Portland State University

Senator, Associated Students of Portland State University — Spring 2018
Portland State University

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., Henkes, G. A., Green, D., Kirinya, M., Boyd, M., Hatton, K., Ngumbau, H., Mwangombe, H. 2025. Soil Temperature Measurements, 2019–2023, Turkana Basin Institute Research Centers, Kenya [dataset]. PANGAEA. https://doi.org/10.1594/PANGAEA.981566

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 $\delta^{18}O$ 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., Lee, D., Tweedy, R., Green, D., Uno, K., Poulsen, P., Henkes, G. 2024. Late Early Miocene Climate in the Turkana Basin, Kenya From Multi-Proxy Records and iCESM Results. American Geophysical Union Annual Meeting.

Pérez-Angel, L., Da, J., Flynn, A., Havranek, R., Novak, J., Romero, I., **Saslaw, M.**, Zhu, F. 2024. A new compilation of terrestrial temperatures during the Miocene. American Geophysical Union Annual Meeting.

Stiles, E., Novak, J., Mitsunaga, B., Hare, V., **Saslaw, M.**, Rugenstein, J., Beck, C., Jukar, A., George, S., Lee, D., Strömberg, C., Uno, K., Vetter, L., Zhu, F. 2024. Global Terrestrial Hydrologic Change Since the Mid-Miocene Climatic Optimum: A New Compilation of Hydroclimate Proxy Records and Implications for Future Change. American Geophysical Union Annual Meeting.

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.

Continued

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.

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 (δ^2H and $\delta^{18}O$) 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.

Continued

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 ($\delta^{18}O$ and δD) of surface water. American Geophysical Union Fall Meeting.