

Mae Saslaw

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Curriculum Vitae

Education

Doctor of Philosophy, Geosciences Stony Brook University, Stony Brook, New York	2025
Bachelor of Science, Geology <i>Magna Cum Laude</i> Portland State University, Portland, Oregon	2019
Bachelor of Fine Arts, Writing <i>Highest Honors, Department Award for Academic Achievement</i> Pratt Institute, Brooklyn, New York	2009

Research

Earth Commons Postdoctoral Fellow Environmental history of the Susquehanna River Advised by Dr. Dagomar Degroot Georgetown University	2025 – Present
Graduate Research Assistant Three records of the Cenozoic Turkana Basin from stable isotopes of soil carbonates and waters Advised by Dr. Gregory Henkes Stony Brook University Department of Geosciences	2019 – 2025
NSF Research Experience for Undergraduates Stable isotopes of surface water across Sauvie Island, Oregon Advised by Dr. John Bershaw Portland State University Center for Climate and Aerosol Research	Summer 2018

Teaching

Teaching Assistant, Sedimentation and Stratigraphy Stony Brook University Department of Geosciences	Spring 2020 & 2025
Guest Lecturer, Isotope Geochemistry Stony Brook University Department of Geosciences	Spring 2023 & 2024
Guest Lecturer, Climate change and human evolution Stony Brook University Department of Anthropology	Spring 2022 & 2023
Teaching Assistant, General Chemistry Stony Brook University Department of Chemistry	Fall 2020
Teaching Assistant, Geology Field School Turkana Basin Institute and Stony Brook University	Fall 2019
Teaching Assistant, Field Geology Stony Brook University Department of Geosciences	Fall 2019

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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	2019 & 2020
Pieper Merit Award Stony Brook University Graduate School	2019
Best Poster Association of Engineering Geologists Oregon Chapter Student Poster Night	2019

Leadership & Service

Organizer, American Association of University Professors Georgetown University Chapter	2025 – Present
Graduate Peer Mentor Program Coordinator Stony Brook University Department of Geosciences	2024 – 2025
Graduate Seminar Coordinator Stony Brook University Department of Geosciences	2023 – 2025
Organizer, Communications Workers of America Local 1104 New York	2020 – 2025
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

- Session Chair, Climate Change & Earth, Environmental, and Atmospheric Sciences
First International Symposium of Nonbinary Scientists 2025
- Co-Convener, Exploring changes in climate, flora, and fauna of Africa through the Cenozoic
Geological Society of America Connects 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 $\delta^{18}\text{O}$ 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.**, 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.
- 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.**, Wootton, 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.

Continued

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- 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.