

# Mae Saslaw

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## Curriculum Vitae

### Education

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Doctor of Philosophy, Geosciences	Expected 2025
Stony Brook University, Stony Brook, New York	
Bachelor of Science, Geology	2017 – 2019
<i>Magna Cum Laude</i>	
Portland State University, Portland, Oregon	
Bachelor of Fine Arts, Writing	2005 – 2009
<i>Highest Honors, Department Award for Academic Achievement</i>	
Pratt Institute, Brooklyn, New York	

### Research

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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

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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

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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**

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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**

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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**

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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**

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

## Publications

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**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  $\delta\text{D}$  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

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**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.

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- 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.
- 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.

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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  $\delta\text{D}$ ) of surface water. American Geophysical Union Fall Meeting.