

Elyssa J. Rivera
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ACADEMIC APPOINTMENTS

August 2025 - Present	ADJUNCT LECTURER [Part-Time] <i>University of Florida Department of Geological Sciences</i>	Gainesville, FL
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EDUCATION

August 2025	DOCTOR OF PHILOSOPHY [Ph.D.] Auburn University (AU) Department of Geosciences Dissertation Title: Novel Applications of Metal Isotope Geochemistry to Understand Ore Formation Advisor: Dr. Laura Bilenker Research Area: Economic Geology, Isotope Geochemistry, Experimental Petrology	Auburn, AL
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May 2020	BACHELOR OF SCIENCE [B.S.] Sam Houston State University (SHSU) Department of Geoscience	Huntsville, TX
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TEACHING EXPERIENCE

2026	Historical Geology, University of Florida	[Instructor]
2026-2025	Earthquakes Volcanoes & Other Hazards, University of Florida	[Instructor]
2022	Economic Geology, Auburn University	[Teaching Assistant]
2022-2020	Dynamic Earth, Auburn University	[Teaching Assistant]
2020	Physical Geology, Sam Houston State University	[Teaching Assistant]
2020-2018	Geological Hazards, Sam Houston State University	[Teaching Assistant]

MANUSCRIPTS IN PREPARATION:

Rivera, E., Bilenker, L.D., Mathur, R., *Building a Framework for Interpreting Molybdenum Isotope Ratios in Ore Deposits.* (Intended to submit to Chemical Geology)

Rivera, E., Bilenker, L.D., Hudgins, T.R., *Deciphering Fluid Evolution of a Skarn Through Fe Isotope Analysis of Garnets: A Case Study at the Tibes Iron Skarn, Puerto Rico.* (Intended to submit to Chemical Geology)

ABSTRACTS AND PRESENTATIONS

Rivera, E., Bilenker, L.D. (2021): Building a Framework for Interpreting Molybdenum Isotope Ratios in Ore Deposits. **Southeastern GSA Poster Presentation**, April 2, 2021. doi: 10.1130/abs/2021SE-362042

Rivera, E., Bilenker, L.D, King-Doonan, E. (2021): Building a Framework for Interpreting the Mo Isotopic Composition of Ore. **GSA Connects Oral Presentation**, October 13, 2021. doi: 10.1130/abs/2021AM-367671

Rivera, E., Bilenker, L.D, Hudgins, T., Swartz, J. (2024): Preliminary Insights from the Fe Isotope Composition of Garnets in the Tibes Iron Skarn. **Southeastern GSA Poster Presentation**, April 16, 2024. doi: 10.1130/abs/2024SE-398282

Rivera, E., Bilenker, L.D, Hudgins, T.R, Barefoot, M., Giovannetti-Nazario, D. (2024): Geochemical Insights into the Formation of the Tibes Iron Skarn, Puerto Rico. **Gordon Research Poster Presentation**, June 22-28, 2024.

Rivera, E., Bilenker, L.D, Hudgins, T.R, Swartz, J. (2024): Preliminary Insights from the Fe Isotope

UNIVERSITY OUTREACH

August 2025- August 2024	GRADUATE STUDENT COMMITTEE <i>Auburn University Department of Geosciences</i> Serve as a committee member to represent the graduate students in the department and making sure the students' needs and concerns are addressed.
August 2025- August 2023	GEO PEER MENTOR <i>Auburn University Department of Geosciences</i> Serve as a mentor for incoming graduate students, offering guidance and support to address any inquiries or issues that may arise during their enrollment, teaching assignments, or paperwork processes.
August 2025- August 2022	GEOSCIENCES STUDENT EXCELLENCE & ACCOUNTABILITY COMMITTEE <i>Auburn University Department of Geosciences</i> Strive to cultivate an inclusive, diverse, and equitable university environment within the Department of Geosciences, ensuring that every member of the community feels valued, welcomed, and heard.
August 2025- August 2020	SIGMA GAMMA EPSILON (SGE) <i>Auburn University Department of Geosciences</i> Vice President [May 2024 – May 2023] Collaborate with the president to develop events that promote success and bridge the gap between students and faculty in Earth Sciences.
May 2024- August 2023	GRADUATE STUDENT COUNCIL (GSC) <i>Auburn University Department of Geosciences</i> Geosciences Senator Act as the official graduate student representative for the geology department in university affairs and the student government association.
May 2020- January 2018	SAM HOUSTON ASSOCIATION OF GEOLOGY STUDENTS <i>Sam Houston State University Department of Geoscience</i> Secretary [2019-2020] Vice president [2018-2019]

OUTREACH

- State Science Olympiad – Volunteer Test Grader [2023]
 - *A competitive academic program where students participate in various science and engineering events to showcase their knowledge and skills.*
- Auburn Geoscience Day [2023]
 - *An educational outreach seminar targeting upper-level high school students, designed to provide insights into the geoscience degree program.*
- Destination STEM [2022, 2024]
 - *An educational outreach program targeting K-12 students designed to provide insights into the STEM program offered at Auburn University.*
- COSAM Before Convocation, sponsored by the Society of Women in Science and Mathematics
 - *Volunteer: recruiting and information event for female undergrads.*
- Auburn University Earth Day [2022-2024]
 - *Volunteer: help run tables and bring awareness to the geosciences in fun and engaging ways*

SHORT COURSES & WORKSHOPS

- Best Practices in Research Excellence [Sep. 2024]
- ExxonMobil Recruitment Short Course [Oct. 2023]
- IsoCamp [June 2023]
- Mobile Summer Institutes (MOSI) on Scientific Teaching Workshop [July 2022]

HONORS

- GAB Diversity Award [2024]
- GAB Outstanding Award in the ESS Program [2023]
- NAGT Outstanding Teaching Assistant Award [2023]
- Sam Houston State University Dean's List of Academic Honors [2019-2020]

GRANTS

- NSF-EAR Postdoctoral Fellowship: **Rejected** [2025]
NSF EAR-PF. No. 2517886: Iron Isotopes in Garnets: A Novel Method for Deciphering Metamorphism
- Goldschmidt Geoscience Diversity Grant, Amount: **\$2000** [2024]
- SEGSA Division Student Travel Grant, Amount: **\$100** [2024], **\$198** [2021]
- AU Geosciences GAB Student Travel Grant, Amount: **\$400** [2024], **\$460** [2021]
- Mobile Summer Institutes on Scientific Teaching Workshop Grant, Amount: **\$1,000** [2022]
- AU Fousek Research Grant, Amount: **\$1,200** [2022]
- MGPV GSA Division Student Travel Grant, Amount: **\$500** [2021]

SKILLS

Acid Digestion, Gas Extraction Line, Column Chromatography, Petrographic Analysis (transmitted and reflected light), LA-ICP-MS (NWR193-Agilent 7900), MC-ICP-MS (Nu 1700 and Neptune Plus), XRD

Microsoft Office [Word, Excel, PowerPoint], Adobe Illustrator, DataGraph, iolite

Adaptability, Interpersonal Communication, Leadership, Organization, Time management

MEMBERSHIPS

Geological Society of America [GSA]; Society of Economic Geologists, Inc. [SEG]; Sigma-Gamma-Epsilon Chapter, Department of Geosciences, Auburn University [SGE]; Geochemical Society; American Association of Petroleum Geologists [AAPG]