

Evan Joseph Ramos

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Current position

PhD Candidate, Department of Geological Sciences, The University of Texas at Austin

Areas of specialization

Numerical modeling • Stable isotope geochemistry • Fluid-rock interactions • Earth Systems science
• Floodplains • Hydrology

Education

- 2021 (expected) PhD in Geological Sciences, The University of Texas at Austin
Thesis: *Toward a mechanistic understanding of silicate weathering and Li transfer across landscapes, past and present*
Advisers: Drs. Daniel O. Breecker & Jaime D. Barnes
- 2017 MS in Geological Sciences, The University of Texas at Austin
Thesis: *Fluid flow during low- $\delta^{18}\text{O}$ skarn formation: insights from Empire Mountain, Mineral King, Sierra Nevada*
Advisers: Drs. Jaime D. Barnes & Marc A. Hesse
- 2015 BA in Geophysics & Planetary Sciences *Magna Cum Laude with Honors*, Boston University
Thesis: *Garnet growth as a tracer of subduction zone dehydration: a case study from the Cycladic Blueschist Unit of Syros, Greece*
Adviser: Dr. Ethan F. Baxter

Honors & awards

- 2020 Graduate School Summer Fellowship, UT-Austin
- 2019 Ford Foundation Predoctoral Fellowship, Honorable Mention
- 2018 Outstanding Teaching Assistant Award, Department of Geological Sciences, UT-Austin
- 2016 Duchin Endowed Presidential Scholarship, UT-Austin
- 2015-2016 Diversity Mentoring Fellowship, UT-Austin

- 2015 Book Award (most outstanding undergraduate) for Geophysics & Planetary Sciences, Boston University
- 2013-2014 Undergraduate Research Opportunities Program, Boston University

Grants

- 2020 Travel Grant for SEPM International Sedimentary Geoscience Congress, National Science Foundation/Society for Sedimentary Geology (**\$1,000**)
- 2019 Match Grant, Jackson School of Geosciences, UT-Austin (**\$1,000**)
- 2019 Student Geoscience Grant, Geological Society of America (**\$1,872**)
- 2019 Off-Campus Research Fellowship, Jackson School of Geosciences, UT-Austin (**\$592**)
- 2016 Ronald K. DeFord Field Scholarship Fund, Jackson School of Geosciences, UT-Austin (**\$900**)
- 2016 Match Grant, Jackson School of Geosciences, UT-Austin (**\$1,000**)
- 2016 Student Geoscience Grant, ExxonMobil/Geological Society of America (**\$7,500**)

Publications

IN PREPARATION

Ramos, E.J., Capaldi, T.N.: Lithium isotope compositions of river water explained by catchment properties. In preparation for *Geochimica et Cosmochimica Acta*

Serach, L.R., **Ramos, E.J.**, Breecker, D.O.: $p\text{CO}_2$ effect on C_3 plants could explain down-profile trends in stable carbon isotope values of soil organic carbon

Knobbe, T.K., Schaller, M.F., Breecker, D.O., Pettitt, E.A., **Ramos, E.J.**: Soil gas dynamics in a Texas vertisol: Implications for pedogenic carbonate formation and bulk gas transport. In preparation for *Geoderma*

IN REVIEW OR REVISION

Smith, B.P., Cantine, M.D., Bergmann, K.D., Kerans, C., **Ramos, E.J.**, Martindale, R.C.: Arid coastal deposits and the Phanerozoic record of carbonate chemistry. In review at *Nature Geoscience*

PUBLISHED OR IN PRESS

- 2020 **Ramos, E.J.**, Lackey, J.S., Barnes, J.D., Fulton, A.A.: Remnants and rates of metamorphic decarbonation in continental arcs, *GSA Today*, 30 (5), 4-10. DOI: 10.1130/GSATG432A.1 [[link](#)]
- 2018 **Ramos, E.J.**, Hesse, M.A., Barnes, J.D., Jordan, J.S., Lackey, J.S.: Reevaluating fluid sources during skarn formation: an assessment of the Empire Mountain skarn, Sierra Nevada, USA, *Geochemistry, Geophysics, Geosystems*, 19 (10), 3657-3672. DOI: 10.1029/2018GC007611 [[link](#)]

Presentations

INVITED TALKS

- 2019 Texas State University: "Fluid residence time modulates Li isotope transport during weathering"

CONFERENCES

- 2019 **Ramos, E.J.**, Sickmann, Z., Capaldi, T.N.: Fluid residence time modulates Li isotope transport during silicate weathering, *AGU Fall Meeting Abstracts*, San Francisco, CA, USA. *Oral*
- 2019 Smith, B.P., Cantine, M.D., Bergmann, K.D., Kerans, C., **Ramos, E.J.**, Martindale, R.C.: Arid coastal deposits and the Phanerozoic record of carbonate chemistry, *AGU Fall Meeting Abstracts*, San Francisco, CA, USA. *Oral*
- 2019 Kotowski, A.J., Wright, V., Soltis, N., **Ramos, E.J.**, Thomas, D.: Assessing the impact of a challenge-based, Collectivist approach to learning on minority student engagement in the Geosciences, *AGU Fall Meeting Abstracts*, San Francisco, CA, USA. *Oral*
- 2019 **Ramos, E.J.**, Breecker, D.O.: A Li isotope record of silicate weathering in floodplains across the Paleocene-Eocene Thermal Maximum, *Terrestrial and Coastal Climates of the Paleocene-Eocene Thermal Maximum*, Santa Cruz, CA, USA. *Oral*
- 2018 **Ramos, E.J.**, Barnes, J.D., Lackey, J.S.: Quantifying the shallow crustal contribution to continental arc CO₂ production, *AGU Fall Meeting Abstracts*, Washington, D.C., USA. *Poster*
- 2018 **Ramos, E.J.**, Hesse, M.A., Barnes, J.D., Jordan, J.S., Gevedon, M.L., Lackey, J.S.: Advances in models of skarn formation and future research directions, *Industry-Rice Earth Science Symposia*, Rice University, Houston, TX, USA. *Oral*
- 2017 **Ramos, E.J.**, Barnes, J.D., Hesse, M.A.: Quantifying amounts and rates of metamorphic decarbonation through carbon and oxygen isotope analyses, *25th Annual Hubbert Quorum*, New Orleans, LA, USA. *Poster*
- 2017 **Ramos, E.J.**, Hesse, M.A., Barnes, J.D., Lackey, J.S.: Modeling fluid flow in low- $\delta^{18}\text{O}$ skarns: insights from Empire Mountain, Mineral King, Sierra Nevada, California, *Goldschmidt*, Paris, France. *Poster*
- 2016 **Ramos, E.J.**, Hesse, M.A., Jordan, J.S., Barnes, J.D., Gevedon, M.L., Lackey, J.S.: Modeling fluid flow and stable isotope transport during skarn formation: insights from Empire Mountain, Mineral King Pendant, Sierra Nevada, Geological Society of America *Abstracts with Programs*, 48(7). doi:10.1130/abs/2016AM-283355. *Poster*
- 2015 **Ramos, E.J.**, Baxter, E.F., Caddick, M.J., Kendall, J.A., Gorce, J.S., Brooks, H.L.: Thermodynamic analysis of blueschist links garnet growth to progressive subduction zone dehydration in the Cycladic Blueschist Unit of Syros, Greece, Geological Society of America *Abstracts with Programs*, 47(7), p. 775. *Poster*
- 2015 Kendall, J.A., Baxter, E.F., Caddick, M.J., Gorce, J.S., **Ramos, E.J.**, Brooks, H.L.: Samarium/Neodymium garnet geochronology of eclogites from Syros, Greece. Geological Society of America *Abstracts with Programs*, 47(7), p. 776. *Poster*
- 2015 Gorce, J.S., Caddick, M.J., Baxter, E.F., Ashley, K.T., Kendall, J.A., Brooks, H.L., **Ramos, E.J.**: P-T paths from Syros, Greece, and constraints from subduction zone fluid generation. Geological Society of America *Abstracts with Programs*, 47(7), p.775. *Poster*

Teaching

- 2020 Instructor, *9th grade Houston Academy in Central Texas and the Texas Gulf Coast*, GeoFORCE, Austin, TX.
- 2020 Teaching Assistant, *Physical Geology*, Department of Geological Sciences, UT-Austin
- 2019 Head Teaching Assistant, *Physical Geology*, Department of Geological Sciences, UT-Austin
- 2019 Educational Coach, *11th grade Houston Academy in the Pacific Northwest*, GeoFORCE, Austin, TX.
- 2018 Head Teaching Assistant, *Programming in FORTRAN/MATLAB*, Department of Geological Sciences, UT-Austin
- 2017 Teaching Assistant, *Physical Geology*, Department of Geological Sciences, UT-Austin
- Overall instructor rating (35 submissions, 46 students): **4.8/5**
- 2012-2015 Teaching Assistant, *Introduction to Engineering Computation*, College of Engineering, Boston Uni-

versity

Advising

UNDERGRADUATE

- 2019- Laura Arnold (B.S. Geological Sciences & Chemistry, 2022), UT-Austin
Primary adviser: Dr. Daniel O. Breecker
- 2017-2019 Preston Fussee-Durham (B.S. Geological Sciences & Mathematical Sciences, 2019), UT-Austin
Primary adviser: Dr. Marc A. Hesse
Thesis: *Pore fluid overpressure generation in viscously deforming porous media: implication for modeling episodic fluid migration in salt basins*

Fieldwork & sampling trips

- 2020 Bighorn Basin, Wyoming, USA (**2 weeks**)
Collaborator: Dr. Brady Z. Foreman
- 2019 Bighorn Basin, Bighorn Mountains, and Beartooth Mountains, Wyoming, USA (**3 weeks**)
Collaborators: Drs. Daniel O. Breecker & Sarah W.M. George
- 2018 Bighorn Basin, Wyoming, USA (**1 week**)
Collaborators: Drs. Daniel O. Breecker & Scott L. Wing
- 2016 Empire Mountain, Sierra Nevada, California, USA (**1 week**)
Collaborators: Drs. Jaime D. Barnes & Jade Star Lackey
- 2014 Syros Island, Greece (**2 weeks**)
Collaborators: Drs. Ethan F. Baxter, Mark J. Caddick, & John C. Schumacher

Profession engagement & outreach activities

SERVICE

- 2020 Contributor, AGU Bridge Program proposal, Department of Geological Sciences, UT-Austin.
- 2019 Student Representative, Search Committee for Dean of the Jackson School of Geosciences. The University of Texas at Austin, Austin, TX.

WORKSHOPS

- 2018, 2020 Inclusive Classrooms Leadership Certificate Seminar. The University of Texas at Austin, Austin, TX.
- 2017 Carbon forms, paths, and processes in the Earth. Organized by the *Deep Carbon Observatory*. Lake Como, Italy.

PROFESSIONAL ORGANIZATION | ACTIVE MEMBER

- 2019- Society for Sedimentary Geology
- 2017-2018 *President*, Graduate Student Executive Committee, Department of Geological Sciences, UT-Austin
- 2018- American Geophysical Union
- 2017- European Association of Geochemistry
- 2015- Geological Society of America
- 2015- Mineralogical Society of America
- 2015- GeoFORCE, UT-Austin

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