

Cody C. Mason, Ph.D.

Curriculum Vitae, January 2022

Assistant Professor
University of West Georgia, Geology Program
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Education

Ph.D. Geosciences, Virginia Tech (advisor Brian W. Romans) 2017
B.S. Geology, Fort Lewis College, 2011

Professional Experience

2018 – Present: Assistant Professor, University of West Georgia
2017 – 2018: Postdoctoral Researcher, Virginia Tech
2015 – 2016: Statoil Summer Intern, Austin Texas
2013 – 2016: Teaching Assistant, Virginia Tech
2012 – 2015: Research Assistant, Virginia Tech
2011: NAGT/USGS Summer Intern, Lakewood Colorado

Teaching (University of West Georgia unless noted)

Coastal Geology (spring term)
Sedimentation and Stratigraphy (fall terms)
Physical Geology, and Physical Geology Laboratories (fall/spring terms)
Historical Geology, and Historical Geology Laboratories (fall/spring terms)
Independent Research Topics (ongoing undergraduate research)
Summer Field Geology (2019)
Sedimentary Petrology (fall term 2018)
Appalachian Geology Seminar (spring term 2017, Virginia Tech)

Research Interests

Clastic sedimentology and stratigraphy of alluvial, fluvial, and marine environments, sediment provenance, source-to-sink analyses, detrital geo-thermochronology, and cosmogenic radionuclides applied to surface processes

Peer Reviewed Publications

8. **Mason, C.C.**, Romans, B.W., Patterson, M.O., Stockli, D.F., and Fildani, A., (In revision; *Nature Communications*). Cycles of Andean Mountain Building Archived in the Amazon Fan. <https://doi.org/10.21203/rs.3.rs-798408/v1>

7. Spotila, J.A., **Mason, C.C.**, Valentino, J.D., Cochran, W.J., 2020. Constraints on rock uplift in the eastern Transverse Ranges and northern Peninsular Ranges and implications for kinematics of the San Andreas fault in the Coachella Valley, California, USA 16, 1–28. doi:10.1130/GES02160.1/4968181/ges02160.pdf
6. Brugger, Keith A., Ruleman, Chester A., Caffee, Mark W., and **Mason, C.C.**, 2019. Climate during the Last Glacial Maximum in the Northern Sawatch Range, Colorado, USA. *Quaternary* 2.
5. **Mason, C.C.**, Romans, B.W., Stockli, D.F., Mapes, R.W., Fildani, A., 2019. Detrital zircons reveal sea-level and hydroclimate controls on Amazon River to deep-sea fan sediment transfer. *GEOLOGY*, 47, 1–5. doi:10.1130/G45852.1/4678806/g45852.pdf
4. Fildani, A., Hessler, A.M., **Mason, C.C.**, McKay, M.P., Stockli, D.F., 2018. Late Pleistocene glacial transitions in North America altered major river drainages, as revealed by deep-sea sediment. *Sci. Rep.*
3. **Mason, C.C.**, Romans, B.W., 2018. Climate-driven unsteady denudation and sediment flux in a high-relief unglaciated catchment–fan using ²⁶Al and ¹⁰Be: Panamint Valley, California. *Earth Planet. Sci. Lett.*
2. **Mason, C.C.**, Spotila, J.A., Axen, G., Dorsey, R.J., Luther, A., Stockli, D.F., 2017. Two-Phase Exhumation of the Santa Rosa Mountains: Low- and High-Angle Normal Faulting During Initiation and Evolution of the Southern San Andreas Fault System. *Tectonics*
1. **Mason, C.C.**, Fildani, A., Gerber, T., Blum, M.D., Clark, J.D., Dykstra, M., 2017. Climatic and anthropogenic influences on sediment mixing in the Mississippi source-to-sink system using detrital zircons: Late Pleistocene to recent. *Earth Planet. Sci. Lett.*

Abstracts (*denotes UWG student advisee)

- Benitez-Nelson, N., Lang, K.A., Thomson, K.A., **Mason, C.C.** (2021). Concentration, transportation, and deposition of microplastics along the Savannah River, Georgia (USA). AGU Annual Fall Meeting, New Orleans, Louisiana.
- *Mayer, C.K., **Mason, C.C.**, Romans, B.W., and Fildani, A., 2021. Detrital zircon U-Pb and fission track double dating from the Amazon fan records early Phanerozoic to Cenozoic tectonic events and recent exhumation rates of the Andes. Annual Geological Society of America Southeastern Section Meeting, 1 – 2 April [virtual], University of Auburn, Alabama.
- Mason, C.C.**, Johnstone, S., Patterson, M.O., Romans, B.W., Stockli, D.F., and Fildani, A., 2020. Timescales of episodic tectonic denudation using detrital zircon double dating in the Amazon River to fan system. Geological Society of America Annual Meeting
- *Johnson, M., **Mason, C.C.**, 2020. Investigating erosion of the Panamint mountains using cosmogenic nuclides in sediment. Scholars' Day Undergraduate Research Conference, University of West Georgia, Carrollton, Georgia. [Note: This conference was canceled due to public health concerns related to COVID-19.]
- *Speessen, J.M., **Mason, C.C.**, 2020. Stratigraphic correlation and signal propagation across sedimentary system segments using U-Pb detrital zircon geochronology: insights from the late Pleistocene Mississippi River and deep-sea fan. Scholars' Day Undergraduate Research Conference, University of West Georgia, Carrollton, Georgia. [Note: This

- conference was canceled due to public health concerns related to COVID-19.]
- Parent, A., Romans, B., **Mason, C.**, Stockli, DF., 2020. Passive margin sedimentation during the early drift phase of the U.S. mid-Atlantic: perspectives from U-Pb detrital zircon geochronology. Geological Society of America Annual Meeting.
- Parent, A., Romans, B., **Mason, C.**, Stockli, DF., 2020. Evolution of sediment dispersal systems during the early drift phase of U.S. Atlantic margin development: insights from detrital zircon U-Pb geochronology. Geological Society of America Joint Southeastern Northeastern Section Meeting.
- Mason, C.**, Romans, B., Fildani, A., and Stockli, DF., 2019. A deep-sea record of South American tectonics and surface processes: insights from detrital zircon double dating from the Amazon submarine fan. Geological Society of America Annual Meeting, Phoenix, Arizona, USA.
- Romans, B., Auchter, N., Johnstone, S., **Mason, C.**, and Hubbard, SM., 2019. Effects of Intrabasinal Recycling on the Preservation of Tectonic and Climate Signals Determined from Provenance Analysis. AGU Fall Meeting.
- McKay, M., Hessler, A., **Mason, C.**, Stockli, DF., and Fildani, A., 2018. North America major river drainages modified at Late Pleistocene glacial transitions: a tale from deep-sea sediment. Geological Society of America Annual Meeting, Indianapolis, Indiana, USA.

Invited Speaking Engagements

- 2021: Simon Fraser University ARISE Research Seminar, "From catchment-fans to continent-scale sediment routing systems: Insights from detrital geochronology" [Virtual Presentation]
- 2020: Geological Society of America National Meeting, "Timescales of episodic tectonic denudation using detrital zircon double dating in the Amazon River to fan system" [Virtual Presentation]
- 2019: University of Mississippi, "A world in a grain of sand: detrital geochronology of the largest sediment routing systems of the Americas"
- 2019: Tulane University, "A world in a grain of sand: detrital geochronology of the largest sediment routing systems of the Americas"
- 2017: Fort Lewis College, "Graduate Research and Graduate Student Life"

Undergraduate Researchers Advised (University of West Georgia)

- 2021-2022 Matthew Worthan
- 2020-2021 Cole Mayer, Matthew Johnson, Matthew Worthan
- 2019-2020 Jourdan M. Speessen, Jack Heltzer, G. Paul Miles II
- 2018-2019 Steven Whatley

Synergistic Activities

- 2017-present, Peer Reviewer for: Geology, Earth and Planetary Science Letters, JGR Earth Surface, Geosphere, Earth Surface Dynamics, Geological Journal, Basin Research
- 2016-2020, Convener or Co-chair for a total of five technical sessions: Geological Society of America National Meeting (2020; [virtual]), Geological Society of America Annual Meeting (2019; Phoenix, AZ), American Geophysical Union Annual Fall Meetings

(2017; New Orleans, LA & 2018; Washington D.C.), Geological Society of America Southeastern Section Meeting (2018; Charleston, SC)

- 2019, NSF funded Sed Strabo workshop participant, Salt Lake City Utah
- 2019, NAGT Early Career Workshop participant, College Park, Maryland
- 2019, proposal reviewer for Deutsche Forschungsgemeinschaft (German Research Foundation)
- Presenter: 2016 Friends of the Pleistocene Pacific Cell field trip. Panamint Valley, California

Memberships in Learned Societies

Geological Society of America (GSA)

American Geophysical Union (AGU)

Society for Sedimentary Geology (SEPM)

National Association of Geoscience Teachers (NAGT)

American Association of Petroleum Geologist (AAPG)

Grants and Awards

2020, University of West Georgia Faculty Research Grant: \$3,175. How fast do mountains erode? A case study from the Panamint Mountains, California.

2018, Subaward from Virginia Tech: \$43,000. Source-to-Sink Dynamics of Large Sediment Routing Systems With and Without Continental Ice Sheets: Value of Detrital Zircons for Sediment Routing System Characterization and Prediction.