

Joel S. Scheingross (he/him)

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Professional Appointments

Assistant Professor, University of Nevada Reno, Dept. of Geological Sciences and Engineering, Jan. 2019 - Present
Postdoctoral Scientist, GFZ – German Research Centre for Geosciences, Potsdam, Germany, Nov. 2017 – Oct. 2018
Alexander von Humboldt Postdoctoral Fellow, GFZ – German Research Centre for Geosciences, Potsdam, Germany,
Nov. 2015 – Oct. 2017
Research / Teaching Assistant, California Institute of Technology, September 2009 – October 2015
Research staff, University of California, Berkeley, May 2008 – June 2009

Education

PhD, Geology, California Institute of Technology, Adviser: Michael Lamb, 2015
M.S., Geology, California Institute of Technology, 2012
B.A., Geology and B.S., Environmental Science, University of California, Berkeley, 2007

Honors and awards

AGU Luna B. Leopold Young Scientist Award (2019)
AGU Fall Meeting Robert P. Sharp Lecture invited speaker (2019)
Alexander von Humboldt Postdoctoral Fellow (2015 – 2017)
Outstanding Student Presentation Award, AGU Fall Meeting (2013)
National Science Foundation Graduate Research Fellowship Program fellow (2011-2014)
National Center for Airborne Laser Mapping (NCALM) seed grant recipient (2010)
UC Berkeley, Earth and Planetary Science Department Citation (2007)
Charles H. Ramsden Research Fellow, UC Berkeley (2007)
NSF Research Experience for Undergraduates fellow, Oregon State University (2006)

Peer-reviewed publications (*indicates advised graduate, undergraduate, or high school student)

[ORCID](#) | [Google Scholar](#)

In Review and Revision

- *Groh, E.L. and Scheingross, J.S., in review, Morphologic signatures of autogenic waterfalls: A case study in the San Gabriel Mountains, California.
- *Golombek, N.Y., **Scheingross, J.S.**, Repasch, M.N., Hovius, N., Sachse, D., Lupker, M., Eglinton, T.I., Menges, J., Haghypour, N., Poulson, S.R., Grocke, D.R., Latosinski, F.G., Szupiany, R.N., in revision, Fluvial organic carbon composition regulated by seasonal variability in lowland river migration.
- Repasch, M., **Scheingross, J.S.**, Hovius, N., Lupker, M., Wittmann, H., Haghypour, N., Grocke, D.R., Orfeo, O., Eglinton, T.I., and D. Sachse, in revision, Fluvial organic carbon cycling regulated by sediment transit time.

In Press and Print

17. **Scheingross, J.S.** and M.P. Lamb, 2021, Mass balance controls on sediment scour and bedrock erosion in waterfall plunge pools, *Geology*, v. 49, doi: 10.1130/G48881.1.
16. **Scheingross, J.S.**, Repasch, M.N., Hovius, N., Sachse, D., Lupker, M., Fuchs, M., Halevy, I., Gröcke, D.R., *Golombek, N.Y., Haghypour, N., Eglinton, T.I., and O. Orfeo, 2021, Constrains on organic carbon modification and oxidation during transient floodplain storage, *Earth and Planetary Science Letters*, V. 561, doi: 10.1016/j.epsl.2021.116822.
15. **Scheingross, J.S.**, Limaye, A.B., McCoy, S.M., and A.C. Whittaker, 2020, The shaping of erosional landscapes by internal dynamics, V. 1, *Nature Reviews Earth & Environment*, doi: 10.1038/s43017-020-0096-0.
14. Repasch, M., Wittmann, H., **Scheingross, J.S.**, Hovius, N., Sachse, D., Szupiany, R., and O. Orfeo, 2020, Sediment transit time and floodplain storage dynamics in alluvial rivers revealed by meteoric ¹⁰Be, *JGR Earth Surface*, V. 125, doi: 10.1029/2019JF005419.

13. **Scheingross, J.S.**, Hovius, N., Dellinger, M., Hilton, R.G., Repasch, M., Sachse, D., Gröcke, D.R., Vieth-Hillebrand, A., and J.M. Turowski, 2019, Preservation of organic carbon during active fluvial transport and particle abrasion, *Geology*, V. 47, no. 10, p. 958-962, doi:10.1130/G46442.1.
12. **Scheingross, J.S.**, M.P. Lamb, and B. Fuller, 2019, Self-formed bedrock waterfalls, *Nature*, V. 567, doi: 10.1038/s41586-019-0991-z .
11. **Scheingross, J.S.**, and M.P. Lamb, 2017, A mechanistic model of waterfall plunge-pool erosion into bedrock, *JGR – Earth Surface*, doi: 10.1002/2017JF004195.
10. **Scheingross, J.S.**, *Lo, D.Y., and M.P. Lamb, 2017, Self-formed waterfall plunge pools in homogeneous rock, *Geophysical Research Letters*, V. 44:1, p. 200-208, doi: 10.1002/2016GL071730.
9. **Scheingross, J.S.** and M.P. Lamb, 2016, Sediment transport through self-adjusting, bedrock-walled waterfall plunge pools, *JGR-Earth Surface*, V. 121, p. 939-963, doi: 10.1002/2015JF003620.
8. Lamb, M.P., Finnegan, N.J., **Scheingross, J.S.**, and Sklar, L.S., 2015, New insight into the mechanics of fluvial bedrock erosion through flume experiments and theory, *Geomorphology*, V. 244, p. 33-55, doi: 10.1016/j.geomorph.2015.03.003.
7. **Scheingross, J.S.**, Brun, F., *Lo, D.Y., *Omerdin, K., and M.P. Lamb, 2014, Experimental evidence for fluvial bedrock incision by suspended and bed-load sediment, *Geology*, V. 42, no. 6, p. 523-526, doi:10.1130/G35432.1.
6. Mackey., B.H., **Scheingross, J.S.**, Lamb, M.P., and K.A. Farley, 2014, Knickpoint formation, rapid propagation, and landscape response following coastal cliff retreat at last-interglacial sea-level highstand: Kaua'i, Hawai'i, *GSA Bulletin*, V.126, no.7/8, p. 925-942, doi:10.1130/B30930.1.
5. DiBiase, R.A., Limaye, A.B., **Scheingross, J.S.**, Fischer, W.W. and Lamb, M.P., 2013, Deltaic deposits at Aeolis Dorsa: Sedimentary evidence for a standing body of water on the northern plains of Mars, *JGR - Planets*, V. 118, Issue 6, pg. 1285-1308, doi: 10.1002/jgre.20100.
4. **Scheingross, J.S.**, Winchell, E.W., Lamb, M.P., and W.E. Dietrich, 2013, Influence of bed patchiness, slope, grain hiding, and form drag on gravel mobilization in very steep streams, *JGR – Earth Surface*, V. 118, Issue 2, p. 982-1001, doi: 10.1002/jgrf.20067.
3. **Scheingross, J.S.**, Minchew, B.M., Mackey, B.H., Simons, M., Lamb, M.P., and S. Hensley, 2013, Fault-zone controls on the spatial distribution of slow-moving landslides, *GSA Bulletin*, V. 125, no. 3/4, p. 473–489; doi: 10.1130/B30719.1.
2. Lamb, M.P., **Scheingross, J.S.**, Swanson, E., Amidon, W., Limaye, A., 2011, A model for post-fire sediment flux by dry ravel in steep landscapes. *JGR - Earth Surface*, V. 116, Issue F3, doi: 10.1029/2010JG001878.
1. Hurst, T.P., Cooper, D.W., **Scheingross, J.S.**, Seale, E.M., Laurel, B.J., and M.L. Spencer. 2009. Effects of ontogeny, temperature, and light on vertical movements of larval Pacific cod (*Gadus macrocephalus*). *Fisheries Oceanography*, 18, 5, p. 301-311 doi:10.1111/j.1365-2419.2009.00512.x.

Other publications

- Scheingross, J.S.**, 2015, Mechanics of sediment transport and bedrock erosion in steep landscapes, Ph.D. dissertation, California Institute of Technology, Pasadena, California.
- Scheingross, J.S.**, 2007. Predicting species distribution of Sierra Nevada butterflies in response to climate change. Senior Thesis, University of California, Berkeley.

Current Graduate student supervision

- Mara Nutt, PhD Student, University of Nevada Reno, 2021 - present
- Michael Robinson, PhD Student, University of Nevada Reno, 2021 - present
- Sophie Rothman, PhD student, University of Nevada Reno (co-advised with Scott McCoy), 2019 – present

Past Graduate student supervision

- Erika Groh, MS student, University of Nevada Reno, August 2019 – June 2021, Morphologic signatures of autogenic waterfalls: A case study in the San Gabriel Mountains, California.
- Nina Golombek, Jan. 2018 – July 2019, Masters student, University of Potsdam, Germany. Seasonality of organic carbon export and stable isotopic signatures in an Andean lowland River.

Synergistic and professional activities

- UNR Geology department Diversity, Equity, and Inclusion founder and Committee Chair (2020 – present)
- AGU Earth and Planetary Surface Processes (EPSP) executive committee member (2017 – present)
- AGU EPSP Connects (online seminar/professional development series) co-founder and organizer (2020 – present)
- AGU EPSP Student Committee Liaison (2019 – present)

AGU EPSP webmaster and social media co-coordinator (2015 – present)
Organizer, AGU EPSP “Ways & Means” mug fundraiser (\$1380 raised, 2018)
Organizer and co-founder of AGU EPSP “Young Geomorphologist Night” (2013-2014)
Session convener, Goldschmidt (2020)
Session convener, AGU Fall Meeting (2014 – 2018, 2020)
Session convener, EGU General Assembly (2016 - 2017)
Reviewer for *Earth Surface Dynamics*, *Earth Surface Processes and Landforms*, *Geology*, *Geophysical Research Letters*, *GSA Bulletin*, *JGR– Earth Surface*, *Science Advances*, US NSF, US-Israel Binational Science Foundation, Nevada NASA Space Grant
Organizer for Caltech Geoclub seminar series (academic year 2011/2012, summer 2014)
Member: American Geophysical Union, European Geosciences Union, Geochemical Society
Regular (6x/yr) guest lecturer, 6th Grade Earth Sciences, McKinley Middle School (2010- 2015)
Caltech *Science Saturday* public outreach lecture (2011)