

CURRICULUM VITAE  
LOGAN WREN RAMING  
October 2023

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## EDUCATION

Ph.D. 2022 Arizona State University (Geological Sciences)  
B.S. 2015 University of Utah (Geoscience, Physics minor)  
B.S. 2009 University of Utah (Economics)

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## ACADEMIC EMPLOYMENT

2023 Postdoctoral Scholar, Arizona State University  
2016 - 2022 NSF Graduate Fellow and Graduate Teaching Assistant,  
Arizona State University  
2016 Undergraduate Teaching Assistant, University of Utah  
2013 - 2015 Undergraduate Research Assistant, University of Utah

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## AWARDS AND HONORS

### Fellowships

2020 School of Earth and Space Exploration Summer Graduate Fellowship  
2018 National Science Foundation Graduate Fellowship

### Awards

2020 & 2019 Graduate Excellence Award  
2019 Distinguished Advisor Award  
2016 First Year Award  
2015 Excellence in Undergraduate Research Award  
2014 Undergraduate Research Opportunity Award

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## GRANTS AND SCHOLARSHIPS

2021 & 2019 Geological Society of America Graduate Research Grant  
2019 ASU Grad. and Prof. Student Association Research Grant  
2015 Doelling Scholarship  
2015 Global Change and Sustainability Center Travel Grant  
2014 Mineralogical Society of Utah Scholarship  
2013 Ken and Nedra Bullock Keller Scholarship

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## INTERNSHIPS

2018	Geoscientist-In-The-Park, Mount Rainier National Park
2017	JE Fuller Hydrology and Geomorphology
2015	Space Science Institute

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## PUBLICATIONS

### Manuscripts

Raming, L.W., Whipple, K.X. (2022). "*When knickzones limit upstream transmission of base-level fall: An example from Kaua'i, Hawai'i.*" *Geology*.  
<https://doi.org/10.1130/G50019.1>

Raming, L.W. & Whipple, K.X., Strauch, A. M. (in revision). "*Limits to Knickzone Retreat and Bedrock River Incision on the Hawaiian Islands.*"

Bowen, B., Kipnis, E., Raming, L.W. (2017). "*Temporal Dynamics of Flooding, Evaporation, and Desiccation Cycles and Observations of Salt Crust Area Change at the Bonneville Salt Flats, Utah.*" *Geomorphology* 299, 1-11.  
<https://doi.org/10.1016/j.geomorph.2017.09.036>

### Book Chapters

Jewell, P., Nelson, D., Bowen, B., and Raming, L. W. (2016). "*Insights into Lake Bonneville Using Remote Sensing and Digital Terrain Tools.*" In *Lake Bonneville: A Scientific Update*. pp (598 - 616). Elsevier

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## CONFERENCE ABSTRACTS AND TALKS

Raming, L.W., Giuseppe Mascaro, Shea Meyer, Elvy Barton, Bo M. Svoma, and Enrique R. Vivoni (December 2023). "*Controls on Non-linear Response to Forest Thinning: Insight from Distributed Hydrological Modeling of Tree Removal at Small Catchment Scales.*" Poster at AGU Fall Meeting.

Raming, L.W. & Whipple, K.X. (December 2021). "*Limits on the Effectiveness of Waterfalls and Bedrock River Incision in Landscape Evolution.*" Talk at AGU Fall Meeting.

Raming, L.W., Zhiang, C., Keating, D., Whipple, K.X., Yager, E., Strauch, A. M., Das, J. (December 2020). "*Extreme Discharges and Thresholds of Boulder Mobility in Steep Mountainous Streams on Maui, Hawai'i.*" Poster at AGU Fall Meeting.

Raming, L.W. & Whipple, K.X. (October 2020). "*Canyon formation on the Hawaiian Islands: Can a single threshold of river incision explain observed patterns of incision?*" Talk at GSA Fall Meeting.

Raming, L.W. (October 2020). "*Thresholds and Limits on River Incision: How Climate Is Recorded By Rivers on The Hawaiian Islands.*" Talk at School of Earth and Space Colloquium, ASU.

Raming, L.W. & Whipple, K.X. (December 2019). "*Lithologic Controls on the Formation and Retreat of Waterfalls.*" Poster at AGU Fall Meeting.

Whipple, K.X., Rossi, M.W., Raming, L.W. (December 2019). "*Threshold Processes in Fluvial Landscape Evolution (invited).*" Talk at AGU Fall Meeting.

Raming, L.W. & Whipple, K.X. (September 2019). "*Knickpoints of Kaua'i, Hawai'i: Accelerated Incision or Lithological Control?*" Talk at GSA Fall Meeting.

Raming, L.W. & Whipple, K.X. (December 2017). "*Thresholds and the Evolution of Bedrock Channels on the Hawaiian Islands.*" Poster presented at AGU Fall Meeting.

Raming, L.W., Farrand, W. H., & Bowen, B. B. (December 2015). "*Mineralogical composition and potential dust source of playas in the Western U.S. and Australia as remotely identified through imaging spectroscopy.*" Poster presented at AGU Fall Meeting.

Raming, L.W. & Bowen, B. B. (October 2014). "*Spatiotemporal analyses of environmental conditions and surface processes at the Bonneville Salt Flats.*" Poster presented at GSA Annual Fall Meeting.

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## TEACHING AND ADVISING

### Teaching Assistantships

Spring 2021	Water Planet, Arizona State University
Fall 2021	Intro to Geology I & II + Labs (online), Arizona State University
Spring 2018	Water Planet, Arizona State University
Fall 2017	Introduction to Exploration, Arizona State University
Spring 2017	Water Planet & Intro to Geology I: Lab, Arizona State University
Fall 2016	Introduction to Exploration, Arizona State University
Spring 2016	Intro to Geophysics, University of Utah

### Undergraduate Advising and Mentorships

#### *Project*

- Collaborated with undergrad to design a Smart Cobble for detection of entrainment
- Mentored undergrad on field work analyzing knickpoints on tributaries of the Verde River
- Advised two National Science Foundation Graduate Fellowship Application

### Graduate Advising and Mentorships

#### *Project*

- Helping guide master thesis work on Impact of forest thinning on water supply of mountainous reservoirs
  - Working with PhD student in incorporating daily remote sensing snow cover products to test and inform hydrological modeling
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## PUBLIC OUTREACH

Spring 2023	Open house event, SSEBE, ASU, AZ
Fall 2019	Open house event, SESE, ASU, AZ
Summer 2018	Science talk and training, Limahuli Gardens, HI
Fall 2018	Open house event, SESE, ASU, AZ
Fall 2016	Science guest at Mountain Pointe Highschool, AZ
Fall 2014	Science guest at Dilworth Elementary, UT
Fall 2014	KSL TV News interview on the Bonneville Salt Flats, SLC, UT

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## PROFESSIONAL AFFILIATIONS

- Geological Society of America
  - American Geophysical Union
  - Sigma Xi Honor Society
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