

## WILL JUNKIN, M.S.

105 N Fork Rd  
Anderson, SC 29621

(301)-512-8440  
[wjunkin@clemsun.edu](mailto:wjunkin@clemsun.edu)

---

### Work and field experience

- Department of Environmental Engineering and Earth Sciences, Clemson University, Lecturer, January 2024 – present
- Nevada Bureau of Mines and Geology, Geologic Mapping Specialist, April 2022 – November 2023
  - Geologic mapping and geochronology of bedrock and surficial deposits within select NV quadrangles
- Maryland Geological Survey, Geologist III, September 2018 – present
  - Geologic mapping and geochronology of the Baltimore Mafic Complex within select MD quadrangles
  - Researching critical mineral occurrence potential in MD (data compilation, geol. mapping, geochem. analysis, lit. review)
  - Presenting on various aspects of Maryland geology to variety of audiences
- AECOM DCS Americas, Geologist II, June 2018 - August 2018
  - Groundwater monitoring and contour mapping, various GIS tasks, report drafting
- Department of Earth Sciences, UCSB, August 2014 – March 2018
  - Master's thesis work
    - Two field seasons (9 weeks) collecting samples and mapping structure, subsurface, and volcanic and volcanoclastic sequences in the Nacimiento del Teno drainage, Maule, Chile.
    - Collected, prepared, and analyzed 20+ samples for detrital and magmatic zircon U-Pb geochronology; performed analyses on Laser Ablation-Inductively Coupled Plasma-Mass Spectrometer (LA-ICP-MS).
  - Additional graduate school experience
    - **Teaching Assistant:** Structural Geology (2x), ArcGIS for Earth Sciences, Summer Field (2x), Earth Materials (2x), Ore Deposits (2x), Volcanology, Plate Tectonics, Dinosaurs, Introduction to Earth Sciences, Introduction to Field Methods; (**overwhelmingly outstanding student evaluations**)
- Department of Geology, University of Maryland, College Park, 2012 – 2014
  - Geochemistry Research Assistant: experienced with various analytical techniques
  - **Teaching Assistant: Introduction to Geology (overwhelmingly outstanding student evaluations)**
- Woods Hole Oceanographic Institution, Research Vessel *Knorr*, departure June, 2013
  - Characterized petrology and mineralogy of mid-oceanic ridge samples
  - Operated Towcam and dredge, characterized newly mapped bathymetry
- Midshore Riverkeeper Conservancy (now ShoreRivers), Easton, MD, 2011 – 2013
  - Research assistant, technical support, video animation
  - Assisted on projects to restore and test river water quality

### Education

- University of California Santa Barbara, Master of Science in Geology, March 2018; 3.94 GPA
- University of Maryland College Park, Bachelor of Science, 2014  
Major: Geology, graduated with high honors; 3.71 GPA
- Colby College, Bachelor of Arts, 2011  
Major: English, graduated with distinction in major; 3.7 GPA final 5 semesters

## Publications

- Junkin, W. D.**, Dee, S. (2025) Geologic Map of the Spanish Springs Peak Quadrangle, Nevada. *Nevada Bureau of Mines and Geology, Open-File Geologic Map* (map undergoing internal review)
- Dee, S., Koehler, R. D., **Junkin, W. D.** (2025) Geologic Map of the Bedell Flat Quadrangle, Nevada. *Nevada Bureau of Mines and Geology, Open-File Geologic Map* (map undergoing internal review)
- Junkin, W. D.** (2021). Geologic Map of the Savage Quadrangle, Maryland. *Maryland Geological Survey, Open-File Geologic Map*
- Junkin, W. D.** (2020). Geologic Map of the Relay Quadrangle, Maryland. *Maryland Geological Survey, Open-File Geologic Map*
- Junkin, W. D.** (2020). Critical Mineral Potential Occurrence Map of Maryland. *Maryland Geological Survey, Open-File Geologic Map*
- Li, S., **Junkin, W. D.**, Gaschnig, R. M., Ash, R. D., Piccoli, P. M., Candela, P. A., & Rudnick, R. L. (2020). Molybdenum contents of sulfides in ancient glacial diamictites: Implications for molybdenum delivery to the oceans prior to the Great Oxidation Event. *Geochimica et Cosmochimica Acta*, 278, 30-50.
- Adams, R. K., **Junkin, W. D.**, & Brezinski, D. K. (2020). Accreted forearc, continental, and oceanic rocks of Maryland's Eastern Piedmont: The Potomac terrane, Baltimore terrane, and Baltimore Mafic Complex. *Geology Field Trips in and around the US Capital*, 57, 21.
- Junkin, W. D.**, & Gans, P. B. (2019). Stratigraphy and geochronology of the Nacientes del Teno and Río Damas Formations: Insights into Middle to Late Jurassic Andean volcanism. *Geosphere*, 15(2), 450-479.
- Gans, P. B., Womer, J., Wrobel, A., **Junkin, W. D.**, Worman, S., Gonzalez, M., Wyatt, M. (2018). Geologic map of the Six Mile Canyon Quadrangle, Nevada. *Map submitted for publication*.
- Junkin, W. D.**, (2017). Insights into middle-late Jurassic Andean backarc volcanism—geology and geochronology of the Nacientes del Teno Formation (35°10'S) (oral presentation). In *Geological Society of America Abstracts with Programs*. (Vol. 49, No. 4, doi: 10.1130/abs/2017CD-292651)
- Smith, D. K., Schouten, H., Dick, H. J., Cann, J. R., Salters, V., Marschall, H. R., ... **Junkin, W.**, ... & Curry, S. (2014). Development and evolution of detachment faulting along 50 km of the Mid-Atlantic Ridge near 16.5° N. *Geochemistry, Geophysics, Geosystems*, 15(12), 4692-4711.

## Awards and honors

- **Voted “Best Teaching Assistant” by UCSB Earth Sciences undergraduates, 2017**
- UCSB Earth Research Institute Fellowship, 2017
- The Lloyd and Mary Edwards Field Studies Fellowship in Earth Science, 2017
- **Elected leader of department graduate student organization, 2016-2017**
- Geological Society of America Graduate Student Research Grant, 2016 and 2017
- UCSB Earth Sciences Graduate Student Opportunity Award, 2015-2016
- National Science Foundation Graduate Research Fellowship Program Honorable Mention, 2015
- UCSB Dean's Fellowship, 2014-2015
- Mineralogical Society of America Distinguished Undergraduate Award, 2013
- Green Scholarship in Environmental Science and Policy, University of Maryland, 2013
- Lipella Scholarship for Academic Excellence, University of Maryland, 2013

## Relevant skills

Software: ArcGIS, Adobe Creative Suite, MS Office Suite, Access, animation and video editing software  
Outdoor: orienteering, wilderness survival training, trip planning, mountaineering, whitewater rescue  
Spanish: intermediate level

**Employment References (may be contacted for reference check)**

Seth Dee  
Geologic Mapping Program Manager  
Nevada Bureau of Mines and Geology  
University of Nevada Reno  
Reno, NV 89557  
775-682-7704  
[sdee@unr.edu](mailto:sdee@unr.edu)

Stephen van Ryswick  
Program Chief  
Coastal and Environmental Geology Program  
Maryland Geological Survey  
Baltimore, MD 21211  
410-554-5544  
[stephen.vanryswick@maryland.gov](mailto:stephen.vanryswick@maryland.gov)