

Jon K. Golla

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EDUCATION

Ph.D. Geology , University of Illinois at Urbana-Champaign	Aug 2019 – Present
M.S. Earth & Planetary Sciences (with distinction), University of New Mexico	Aug 2017 – Jul 2019
B.S. Geology , University of Puget Sound	Aug 2013 – Aug 2017

RELEVANT EXPERIENCE

Hydrology Student Trainee , U.S. Geological Survey	May 2019 – Jul 2019
Contributed to geochemical source-tracking (Snowy River Passage) and geothermal assessment (Messilla Basin) projects	
Seasonal Hydrologic Technician , Valles Caldera National Preserve	Spring 2018, Spring 2019
Contracted through a UNM research assistantship; maintenance of YSI 6920 sondes at 10 stream sites and data management	
Teaching Assistant , University of New Mexico	Fall 2017, Fall 2018
Taught introductory Environmental Science (ENVS) and Earth History courses; Revised and digitized two ENVS labs	
Geology Department Assistant , University of Puget Sound	Aug 2015 – May 2017
Course Assistant , University of Puget Sound	Spring 2015, Fall 2017
Lab aide for Mineralogy and Petrology and Physical Geology courses	
Summer Job Shadow , PT Chevron Pacific Indonesia	Jun 2015 – Jul 2015
Geoscience mentors briefed on exploratory and developmental stages in the geothermal division	

PUBLICATIONS

Journal

1. **Golla, J.K.**, Kuessner, M.L., Henehan, M.J., Bouchez, J., Rempe, D.M., and Druhan, J.L. (2021) 'The evolution of lithium isotope signatures in fluids draining actively weathering hillslopes', *Earth and Planetary Science Letters*, v. 567, 116988. <https://doi.org/10.1016/j.epsl.2021.116988>

Proceedings

3. Lindsey, C.R. and **Golla, J.K.** (2019) 'Multivariate Statistical Method Validation using Aqueous Geochemistry from Yellowstone National Park', *Geothermal Resources Council Transactions*, v. 43, pp. 861-872.
2. **Golla, J.K.** (2018) 'Using Principal Component Analysis to Aid Visualization and Interpretation of Geothermal Solute Geochemistry: An Application to Yellowstone Thermal Waters', *Geothermal Resources Council Transactions*, v. 42, pp. 1226-1239.
1. **Golla, J.K.** and Tepper, J.H. (2017) 'Comparison and Controls of Thermal Spring Chemistry in Cascade Range and Olympic Mountains Geothermal Provinces, Washington', *Geothermal Resources Council Transactions*, v. 41, pp. 1438-1454.

Other

2. Mathioudakis, M., Johnson, M., Huang, K., **Golla, J.**, and Renaud, T. (2018) 'Lava Eruption Disrupts the Puna Geothermal Venture: The Background', in Crawford, I. (ed.) *Geothermal Resources Council Bulletin*, v. 47, no. 4, pp. 53-57.
1. **Golla, J.K.**, Fan, K., and Basant, R. (2018) 'Adventures within the Geothermal Community: a Q & A with Cary Lindsey, a past GRC Scholarship Awardee', in Crawford, I. (ed.) *Geothermal Resources Council Bulletin*, v. 47, no. 2, pp. 32-36.

PRESENTATIONS

American Geophysical Union 2021 Fall Meeting , New Orleans, LA (Talk)	Dec 2021
Goldschmidt 2021 , Virtual (Talk)	Jul 2021
Goldschmidt 2020 , Virtual (Talk)	Jun 2020
American Geophysical Union 2019 Fall Meeting , San Francisco, CA (eLightning: 3-minute Talk & Virtual Poster)	Dec 2019
New Mexico Geological Society 2019 Spring Meeting , Socorro, NM (Talk)	Apr 2019
Thompson Hall Science and Mathematics Seminar , University of Puget Sound (Invited Talk)	Mar 2019
University of New Mexico STEM Research Symposium (Invited Poster)	Mar 2019
New Mexico State Graduate Education Day , Santa Fe, NM (Invited Poster)	Feb 2019

Shared Knowledge Conference , University of New Mexico (Invited Poster)	Nov 2018
Geological Society of America 2018 Annual Meeting , Indianapolis, IN (Poster & Talk)	Nov 2018
Geothermal Resources Council 42nd Annual Meeting , Reno, NV (Talk)	Oct 2018
Geological Society of America 70th Rocky Mountain Section Meeting , Flagstaff, AZ (Poster)	May 2018
New Mexico Geological Society 2018 Spring Meeting , Socorro, NM (Poster)	Apr 2018
New Mexico EPSCoR Year 5 All Hands Meeting: “Minute Madness” , Albuquerque, NM (Co-Talk)	Nov 2017
New Mexico Academy of Science 2017 Research Symposium , Albuquerque, NM (Poster)	Nov 2017
Geological Society of America 2017 Annual Meeting , Seattle, WA (Poster)	Oct 2017
Geothermal Resources Council 41st Annual Meeting , Salt Lake City, UT (Poster & Talk)	Oct 2017
11th Washington Hydrogeology Symposium , Tacoma, WA (Poster)	May 2017
6th South Sound Undergraduate Geosciences Conference , Pacific Lutheran University (Poster)	May 2017
Thompson Hall Science and Mathematics Seminar , University of Puget Sound (Co-Talk)	Apr 2017
25th Murdock College Science Research Conference , Spokane, WA (Poster & Invited Talk)	Nov 2016

AWARDS & HONORS

Outstanding Master of Science Graduate for 2019 , Earth & Planetary Sciences Department, UNM	May 2020
Chateaubriand Fellowship (2020-2021) , Office for Science & Technology, Embassy of France in the US	Apr 2020
Geology Alumni Scholarship Fund , Earth & Planetary Sciences Department, UNM (\$600)	May 2019
Graduate Research Fellowship (2019-2024) , National Science Foundation	Apr 2019
Honorable Mention (Predoctoral Fellowship) , Ford Foundation, NASEM	Apr 2019
Department of Geology Endowed Fellowship (2019-2020) , Department of Geology, UIUC	Feb 2019
GSA 2018 Annual Meeting Student Travel Grant , GSA Rocky Mountain Section (\$125)	Oct 2018
Alexander and Geraldine Wanek Graduate Scholarship , Earth & Planetary Sciences Department, UNM (\$550)	Jun 2018
Student Water Research Grant , New Mexico Water Resources Research Institute (\$6000)	May 2018
Roy J. Shlemon Scholarship Fund , GSA EEGD Division (\$2500)	May 2018
GSA 2018 RM Section Meeting Student Travel Grant , GSA Rocky Mountain Section (\$200)	Apr 2018
Cearley Graduate Grant-in-Aid , New Mexico Geological Society (\$2500)	Apr 2018
Best Presentation (Geochemistry 1 Session) , Geothermal Resources Council	Nov 2017
2nd Best Graduate Poster @ NMAS 2017 Research Symposium , New Mexico EPSCoR (\$100)	Nov 2017
GSA 2017 Annual Meeting Student Travel Grant , GSA Rocky Mountain Section (\$100)	Sep 2017
GRC Graduate Scholarship , Geothermal Resources Council (\$2500)	Aug 2017
Al Eggers Award , Geology Department, University of Puget Sound	May 2017
Anadarko Petroleum Scholarship , Indiana University Geologic Field Station (\$2500)	Apr 2017
GRC Undergraduate Scholarship , Geothermal Resources Council (\$1500)	Jul 2016
Agricola Scholar Award , University of Puget Sound (\$4900)	May 2016

MENTORING & SERVICE

Undergraduate Mentoring

- **Valerie Smykalov**, University of Illinois at Urbana-Champaign 2021-Present
- **Jinyu Wang**, University of Illinois at Urbana-Champaign 2020-2021
Project: Examining the deep pyrite oxidation front in the Critical Zone
- **Kent Smith**, University of New Mexico 2018-2019
Project: Tracking geothermal contributions to the Jemez River, New Mexico with stable isotopes and continuous sensors
- **Brittany Griego**, University of New Mexico 2018-2019
General aqueous geochemistry labwork

Journal Peer Reviews [Journal (year^{# of reviews})]

Geochimica et Cosmochimica Acta (2022¹), Groundwater Monitoring & Remediation (2021¹)

Summer Undergraduate Research Opportunities Program, Department of Geology, UIUC Summer 2020

Undergraduate Research Opportunity Conference, University of New Mexico Apr 2019
Poster presentation judge

Field Day with Southwestern Indian Polytechnic Institute (SIPI) Demonstration of hydrologic and remote-sensing instrumentation to SIPI Geospatial Information Technology students	Mar 2019
New Mexico Summer Community College Opportunity for Research Experience (SCCORE) Assisted Cassaundra Roback with water water quality sampling for their SCCORE project	Summer 2018
Geothermal Resources Council Student Committee Wrote articles for periodic Bulletin; Organized fundraising opportunities; Planned Annual Meeting events	Oct 2017 – Apr 2019
Sigma Gamma Epsilon - Theta Eta Chapter Tutor for undergraduate geology students	Aug 2016 – May 2017

MISCELLANEOUS

Short Courses and Workshops

- **Isotope Tracers in Catchment Hydrology**, University of Saskatchewan May 2020
- **Geothermal Exploration and Development Decisions Based on Resource Conceptual Models**, National Geothermal Academy, University of Nevada, Reno Jun 2018
- **GEOL G429: Field Geology in the Rocky Mountains**, Indiana University Jun 2017 - Aug 2017

Skills

- **Labwork:** ICP-OES, Ion Chromatography, Gran titrations
- **Geochemical software:** CrunchFlow/CrunchTope, SOLVEQ, iGeoT (GeoT-iTOUGH2), PhreeqcI, Geochemists' Workbench
- **Computing:** python, R, GNU Bash (beginning proficiency)
- **GIS:** QGIS
- **Others:** L^AT_EX, Microsoft Office Suite, Vector-image manipulation

Organizations

- American Geophysical Union
- Geological Society of America
- Geochemical Society
- Geothermal Resources Council
- Sigma Gamma Epsilon - Theta Eta Chapter