



Rich A. Pauloo

PhD Candidate, Physical Hydrology, UC Davis
740 Miller Drive · Davis · CA 95616

✉ rpauloo@ucdavis.edu  [richpauloo](https://github.com/richpauloo)  [richpauloo.github.io](https://github.com/richpauloo) | Updated: August 8, 2018

EDUCATION

University of California, Davis, Ph.D. candidate Physical Hydrology expected 2020
University of California, Berkeley, B.S. Biology & minor in Conflict Resolution 2011

EMPLOYMENT

University of California, Davis:

Graduate Student Researcher	2015–present
NSF IGERT Fellow in Climate Change, Water, and Society	2015–2017
U.S./China Clean Energy Research Center Researcher	2015–present
Data Science Initiative Affiliate	2017–present
UC Water Graduate Researcher	2017–present
Graduate Student Assembly Representative	2016–present

National Geographic Student Expeditions:

Expedition Leader (Thailand)	2016
------------------------------	------

NatureBridge, Yosemite National Park & Golden Gate National Recreation Area:

Site Manager	2014–2015
Environmental Science Educator	2013–2014

San Mateo County Office of Education:

Environmental Science Educator	2012–2013
--------------------------------	-----------

University of California, Davis:

Biological Science Technician	2012
-------------------------------	------

PUBLICATIONS

Journal Articles

Pauloo, R., G. Zhilin, G.E. Fogg 2017. "Groundwater Salinization Resulting from Open-to-Closed Basin Conversion in an Agricultural Basin." *Advances in Water Resources* **not submitted**

PRESENTATIONS

2018. Pauloo, R. "Data-Driven Prediction of Domestic Well Failure in California, and Forecasting Future Well Failure with Machine Learning Models" CA Water Data Summit. 23 September.

2018. Pauloo, R. "Regional Groundwater Quantity and Quality Models" Stanford University. 24 May.

2017. Pauloo, G.E. Fogg, R., Z. Guo, C.V. Henri "Basin Scale Groundwater Quality Management Modeling: Methods to Upscale the Advection Dispersion Equation." American Geophysical Union. Final Paper Number H51G-1360. New Orleans, LA. 11–15 Dec.

2017. Pauloo, R., G.E. Fogg, E. Goharian, J.D. Herman "How to Maximize Total Water Storage in California." UC Water Annual Retreat. Davis, CA. 21–22 Sept.

2016. Pauloo, R., G.E. Fogg, Z. Guo "Water Resource Vulnerability to Groundwater Salinization in Closed Basin Aquifers." American Geophysical Union. Final Paper Number H33F-1610. San Francisco, CA. 12–16 Dec.

2016. Pauloo, R., G.E. Fogg, Z. Guo "Investigating Groundwater Sustainability and Water Quality Degredation in California's Tulare Basin using a Simple Mixing Model." Groundwater Resources Association Annual Meeting. Concord, CA. 28–29 Sept.

2016. Pauloo, R., G.E. Fogg, Z. Guo "Groundwater Salinization due to Hydraulic Closure in Tulare Basin over long time scales." Toward Sustainable Groundwater in Agriculture. Burlingame, CA. 28–30 June.

2015. Pauloo, R., P. Marielle "The Past Present and Future: Long-term climate trends and water management history in California." Water Scarcity in the West: Past Present and Future. Davis, CA. 12–13 April.

ORGANIZATION

Session Co-Chair, American Geophysical Union, Dec. 2016. [Integration of Climate, Hydrology, Social Science, and Water Management: Connecting Hydroclimate Models with Stakeholder Need](#)

Conference Co-Organizer, April 2016. [Weathering Change: Impact of Climate Change and SGMA on CA Water](#)

AWARDS

2018 *Early Career Researcher*, West Big Data Hub

2016 *NSF-GRFP Honorable Mention*, National Science Foundation

2015 *NSF-IGERT in Climate Change, Water, and Society*, National Science Foundation

PROFESSIONAL AFFILIATIONS

- American Geophysical Union
- Groundwater Resources Association

- International Association of Hydrogeologists

TRAINING

- Stanford ICME Summer School in Machine and Deep Learning, 2018.
- Software Carpentries Instructor, 2018.
- Eawag Summer School in Mathematical Modeling of Environmental Systems. Dübendorf, Switzerland. June, 2017.
- Contemporary Groundwater Issues Council. May, 2017.
- C2VSim training, San Luis Obispo, CA. April, 2016.
- Drought Tour, California Water Education Foundation, September, 2015.
- Groundwater Tour, California Water Education Foundation, September, 2015.
- First Responder (NOLS) - certification valid through June 2019.

LANGUAGES

- Spanish (conversational)
- Portuguese (elementary)

REFERENCES

Available upon request