

RICH PAULOO

I have coded workflows that stream real-time data from remote sensor networks¹, built dashboards to bring clarity to massive datasets², developed physical simulation models of groundwater flow and contaminant transport³, made visualizations to improve machine learning interpretability⁴, and built R packages⁵.

I am currently searching for positions where I can work on technical, challenging, data-intensive problems for the betterment of society.



EDUCATION

- 2020
|
2015

●

PhD. Candidate, Hydrogeology
University of California Davis

Davis, CA

- Regional scale physical simulation modeling of groundwater flow and contaminant transport.
 - Elected graduate group representative in the Graduate Student Assembly.
 - National Science Foundation fellow.
- 2011
|
2006

●

B.S., Integrative Biology (minor in Conflict Resolution)
University of California Berkeley

Berkeley, CA

SELECTED POSITIONS

- 2020
|
2015

●

Graduate Student Researcher
Fogg Lab

UC Davis

- Primarily work with large hydrologic datasets, numerical groundwater flow and contaminant transport models, and network optimization models.
 - Developed methods to efficiently upscale anomalous contaminant transport in heterogeneous porous media thus informing regional scale groundwater quality modeling.
 - Regularly use R, Python, Git, Bash, MODFLOW, RW3D, Paraview, Illustrator, AWS, Linux, ArcGIS, Envi, LaTeX.
- 2019
|
2018

●

Davis Data Lab Researcher
Computational Institute for Geodynamics (CIG)

UC Davis

- NLP, text mining, and network analysis in R on a corpus of ~600 PDFs.
 - Developed an R Shiny dashboard⁶ to understand the corpus.
 - Results published here⁷.

SELECTED WRITING

- 2019

●

Assessing Impact of Outreach through Software Citation for Community Software in Geodynamics⁸
Computing in Science & Engineering. PP. 1-1. 10.1109/MCSE.2019.2940221.
 - Hwang, L. & Pauloo, R. & Carlen, J.
- 2019

●

Domestic Well Vulnerability to Drought Duration and Unsustainable Groundwater Management in California's Central Valley
Accepted at Environmental Research Letters (copy available upon request.)
 - Pauloo, R. & Dahlke, H. & Escrive-Bou, A. & Fencl, A. & Guillon, H. & Fogg, G.E.
- 2019

●

Anthropogenic Basin Closure and Groundwater SALinization (ABCSAL): An Unrecognized Threat to Water Quality Sustainability
Under-Review (copy available upon request.)
 - Pauloo, R. & Fogg, G.E. & Guo, Z.

CONTACT

- ✉

richpauloo@gmail.com
- 🐦

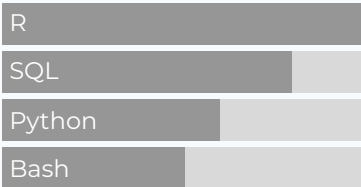
[RichPauloo](#)
- 🌐

github.com/richpauloo
- 🌐

richpauloo.com
- 📞

(415) 275-4981

LANGUAGE SKILLS



FOREIGN LANGUAGE SKILLS

Conversational Spanish

MORE INFO

See full CV at richpauloo.com/cv for more complete list of positions and publications.