

RICH PAULOO

I have coded workflows that stream real-time data from [remote sensor networks](#), built dashboards to bring clarity to [massive datasets](#), developed physical simulation models of [groundwater flow and contaminant transport models](#), made visualizations to improve machine learning [interpretability](#), and built [R packages](#).

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



EDUCATION

- 2020
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2015

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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
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2006

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

📍 Berkeley, CA

SELECTED POSITIONS

- 2020
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2015

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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
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2018

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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 dashboard](#) to understand the corpus.
 - Results [published here](#).

SELECTED WRITING

- 2019

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

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Domestic Well Vulnerability to Drought Duration and Unsustainable Groundwater Management in California’s Central Valley
Under-Review (copy available upon request.)
 - Pauloo, R. & Dahlke, H. & Escriva-Bou, A. & Fencl, A. & Guillon, H. & Fogg, G.E.
- 2019

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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

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richpauloo@gmail.com
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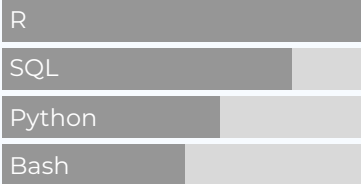
[RichPauloo](#)
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github.com/richpauloo
- 🌐

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.