



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](#), 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 | 2015** **PhD. Candidate, Hydrogeology**
University of California Davis  Davis, CA
 - 3D physical simulation of groundwater flow & solute transport.
 - NSF fellow in Climate Change, Water, and Society IGERT.
 - Elected representative in the Graduate Student Assembly.
 - Built [groundwaterstatement.org](#), signed by over 1,000 groundwater experts worldwide.
- 2011 | 2006** **B.S., Integrative Biology (minor in Conflict Resolution)**
University of California Berkeley  Berkeley, CA
 - Delivered departmental [commencement speech](#) to ~5,000 people.






SELECTED POSITIONS

- 2020 | 2015** **Graduate Student Researcher**
Fogg Lab  UC Davis
 - Work with large hydrologic datasets, numerical groundwater flow and contaminant transport models, & network optimization models.
 - Developed novel models of well failure, groundwater salinization, and contaminant transport in porous media.
 - Regularly use R, Python, Git, Bash, MODFLOW, RW3D, Paraview, Illustrator, AWS, Linux, ArcGIS, Envi, LaTeX.
- 2019 | 2018** **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](#).

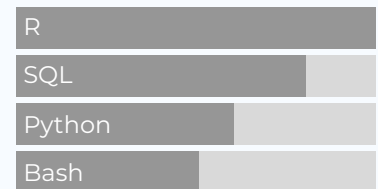
SELECTED WRITING

- 2020** **A low cost, open source wireless sensor network for real-time groundwater monitoring**
[Water, 10.3390/w12041066](#)
 - Calderwood, A. & Pauloo, R. & Yoder, A. & Fogg, G.E.
- 2020** **Domestic Well Vulnerability to Drought Duration and Unsustainable Groundwater Management in California's Central Valley**
[Environmental Research Letters, 10.1088/1748-9326/ab6f10](#)
 - Pauloo, R. & Dahlke, H. & Escrivá-Bou, A. & Fencl, A. & Guillon, H. & Fogg, G.E.
- 2019** **Assessing Impact of Outreach through Software Citation for Community Software in Geodynamics**
[Computing in Science & Engineering, 10.1109/MCSE.2019.2940221](#)
 - Hwang, L. & Pauloo, R. & Carlen, J.

CONTACT

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LANGUAGE SKILLS



FOREIGN LANGUAGE SKILLS

Conversational Spanish

MORE INFO

See full CV at [richpauloo.com/cv](#) for more complete list of positions and publications.

Made w/ [pagedown](#).
Source code: [github.com/rich-pauloo/cv](#).
Last updated on 2020-05-19.