

Rich A. Pauloo

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June 4, 2018

Amanda Elliott State Water Resources Control Board
P.O. BOX 100
Sacramento, CA 95812-0100
(916) 341-5108
amanda.elliott@waterboards.ca.gov

Dear Ms. Elliott,

I enthusiastically submit to you my application for the JC-111672 - Student Assistant position with the California State Water Resources Control Board. I am a PhD Candidate in Physical Hydrology under the supervision of Dr. Graham Fogg at the University of California, Davis. During my graduate career, I have developed an interest in water, data science and programming. I seek a position where I can use data science and hydrologic domain knowledge to improve the welfare of citizens in the great State of California, where I was born, educated, and where I intend to live and work as a water professional.

I believe I well qualified for the position, as my research involves meticulous data collection, data mining, scraping websites, querying JSON relational databases, and working with a variety of data structures both on the computer (SQLite) and in the cloud (MySQL). I frequently use ArcGIS, and moreover, employ spatial computing tools in R to automate spatial processing and ensure transparent and reproducible research. Examples of my work can be found on github. Any of my research repositories easily exceed gigabytes of data, scripts, and documentation, and I'm proud of my ability to stay organized and document my workflow in such a way that eliminates technical debt.

My domain knowledge in California water policy, law, and hydrogeology also prepares me for this role. I developed a sense of the legal and political landscape surrounding water in California, as well as the role the Board plays in permitting and regulating water use in Dr. Virginia Cahill's class on California water law. For the past three years I've immersed myself in California water issues, following the publications and journalism of the PPIC, Maven's Motebook, and the California Water Blog. Over the years, I've attending trainings put on by the DWR and Water Education Foundation, presented my research on groundwater in California at conferences in and out of the state, and even organized a conference with my peers on the implications of the Sustainable Groundwater Management Act.

Thank you for your consideration.

Sincerely,

Rich A. Pauloo