## **BRIAN SCHLAFF**

## Ph.D. Student

schlaff@usc.edu

EDUCATION		
University of Southern California,	Los Angeles CA	2023 – Present
Doctorate of Philosophy in Earth Sciences		2023 Tresent
University of California-Los Angeles Extension, Los Angeles, CA		2020
Certificate in Data Science		
University of Wisconsin-Madison, Madison, WI		2014 - 2018
<ul> <li>Bachelor of Science in Geological Engineering and Geophysics</li> </ul>		
Certificate in Environmental	Studies	
WORK EXPERIENCE		
Senior Scientist   TRC Engineers	Inc.	Dec. 2022 – Aug. 2023
<ul> <li>Analyzed CMIP5/6 data in I</li> </ul>	R to provide physical risk assessments to clie	nts across the U.S.
Project Engineer/Climate Analyst   TRC Engineers Inc.		Nov. 2021 – Dec. 2022
<ul> <li>Prepared climate change vul</li> </ul>	nerability assessment reports and proposed n	nitigation and green remediation
strategies for long term envi	ronmental monitoring and remediation sites	across New York State for NYSDEC.
<ul> <li>Assist in developing a physi</li> </ul>	cal risk assessment tool, focusing on incorpo	rating GCM data in R.
<b>Independent Contractor</b>   Nation	al Parks Service	Aug. 2021 – Oct. 2021
<ul> <li>Developed a tool in GEE to</li> </ul>	project biomass using gridded precipitation	projections.
Nowcasting Intern   National Parks Service		May 2021 – Aug. 2021
Researched environmental thresholds and climatic predictors in the Northern Co		hern Colorado Plateau.
	in Python, R and GEE to help Nation Park n	
Staff Geologist   Apex Companies, LLC.		Jun. 2019 – Apr. 2021
treatment system O&M, gro	ed, managed, and executed field assignments undwater well installation, soil vapor sampli- setting up Arduinos for remote sensing netwo	ng, and groundwater monitoring.
Research Assistant   Hydroecolog	y Lab, Dept. of Civil Engineering	May 2018 – Dec. 2018
	nd MATLAB to analyze groundwater data and installing a variety of scientific equipment	
COMPUTER PROGRAMS &	LANGUAGES	
Python	• R	• C++
<ul> <li>MATLAB</li> </ul>	<ul> <li>Google Earth Engine</li> </ul>	<ul> <li>ArcGIS Pro</li> </ul>
<ul> <li>QGIS</li> </ul>	(GEE)	<ul> <li>Microsoft Office</li> </ul>
• AWS	• SQL	• Tableau
• TensorFlow	• JavaScript	• Keras
• Rockwoks	• PyTorch	• EQuIS
CERTIFICATIONS & AWAR		Nov. 2022
National Quality Award   TRC Engineers Inc.		Nov. 2022
Excellence in Project Management   TRC Engineers Inc.		Sep. 2022
Engineer-In-Training   California Board of Professional Engineers		Mar. 2019
Eagle Scout with Gold Palm Distinction   Boy Scouts of America		Dec. 2011
SPEAKING ENGAGEMENTS		
Presenter   National Parks Service NCPN Annual Conference		Apr. 2022