

KIMBERLY J. QUESNEL

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OVERVIEW

- **Experienced researcher and project manager** passionate about solving complex water-related challenges
- **Working with stakeholders** and external partners to inform applied research
- **Excellent written, oral, and multimedia communication skills** through peer-reviewed publications, reports and research briefs, news stories, interactive data visualizations, conference presentations and posters, invited talks, panel discussions, and educational videos
- **Grant writing experience** for doctoral fellowships and project proposals
- **Proficient technical expertise** in R, JavaScript (D3 & C3 for data visualization), ArcGIS/ArcGIS Online, & Excel

EDUCATION

Stanford University, Stanford, CA

PhD Civil and Environmental Engineering, Environmental Engineering 2019

MS Civil and Environmental Engineering, Environmental Fluid Mechanics & Hydrology 2015

California Polytechnic State University (Cal Poly), San Luis Obispo, CA

BS Civil Engineering, Magna Cum Laude 2010

Munich University of Applied Sciences, Munich, Germany

Engineering Summer Program 2007

RELEVANT EXPERIENCE

Postdoctoral Research Scholar 2019-present

Woods Institute for the Environment, Bill Lane Center for the American West, Stanford University

Graduate Research Assistant 2014–2019

Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt), Water in the West, Stanford University

- Manage over 8 impact-driven research projects from concept to completion, producing deliverables under time constraints both individually and in teams
- Supervise and mentor 8 undergraduate and master's students (up to four at a time)
- Investigate urban water use dynamics at regional, city, and customer-scales using unconventional datasets, statistical models, and modern computational tools to inform water policy and supply planning
- Develop financing and governance mechanisms to accelerate innovation in the water sector
- Disseminate research by writing and editing articles and research briefs with Stanford communications teams

Water Innovation Policy Fellow, ImagineH2O 2018–2019

- One of two inaugural fellows; developing a policy to accelerate the dissemination of in-conduit hydropower

Rising Environmental Leader, Stanford Woods Institute for the Environment 2018

- Gained science communication and leadership skills while interacting with decision-makers in Sacramento, CA and Washington, DC and learning about state- and federal-level environmental policy making

Associate Civil Engineer, Remediation Practice 2011–2014

TRC Environmental Corporation, Denver, CO

- Project engineer and manager for variety of projects including dam design, mine site remediation, time-sensitive environmental site assessments, and regulatory compliance
- Maintained contract employment status for special projects during graduate school

Researcher and Student Mentor , Juneau Icefield Research Program, Juneau, AK	2014
Research Assistant , NSF's Network for Earthquake Engineering Simulation, Oregon State University	2009
Volunteer , Engineers Without Borders, Thailand Team, Cal Poly	2007–2010

SELECT PEER-REVIEWED JOURNAL PUBLICATIONS (4/7)

Quesnel, K.J. and N.K. Ajami. (2019). Large landscape urban irrigation: a data-driven approach to evaluate conservation behavior. *Water Resources Research*

Gordon, B.L, **K.J. Quesnel**, R. Abs, and N.K. Ajami. (2018). A case-study based framework for assessing the multi-sector performance of green infrastructure. *Journal of Environmental Management*.

Quesnel, K.J. and N.K. Ajami. (2017). Changes in water consumption linked to heavy news media coverage of extreme climatic events. *Science Advances*. [Media coverage by Los Angeles Times, Scientific American, Grist, High Country News, Water Deeply, Yale Environment Review, and others.](#)

Quesnel, K.J., N.K. Ajami, and N. Wyss. (2017). Accelerating the Integration of Distributed Water Solutions: A Conceptual Financing Model from the Electricity Sector. *Environmental Management*.

SELECT COMMUNICATION AND MEDIA EXPERIENCE

Quesnel, K.J. and N.K. Ajami. (2018). Water use during a highly-publicized drought: what matters for conservation? *Invited Speaker*. 2017-2018 UC Riverside Water Seminar Series, Riverside, CA.

Ajami, N.K., T. Ng, **K.J. Quesnel**, R. Abs. (2018). Living Map of Innovative Water Financing Mechanisms in the United States. *Interactive online story map*. Water in the West, Stanford University.

Quesnel, K.J. (2017). Blended Finance for Natural Infrastructure Investment. *Panelist*. Forest Trends, San Francisco, CA.

Quesnel, K.J., N.K. Ajami, and N. Wyss. (2017). Tapping into Alternative Ways to Fund Innovative and Multi-Purpose Water Projects: A Financing Framework from the Electricity Sector. *Report*. Stanford University.

Quesnel, K.J. and N.K. Ajami. (2016). Alternative Ways to Fund Water Projects: Looking to the Electricity Sector. *Invited Speaker*. How to Fund Groundwater Sustainability Symposium, Groundwater Resources Assn. of CA

SELECT AWARDS

Awardee , U.S. Environmental Protection Agency, Science to Achieve Results Fellowship (\$132,000)	2016–2019
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Awardee , 2018 Water Innovation Policy Fellowship, ImagineH2O (\$10,000)	2018–2019
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Best Student Presentation , American Water Resources Association annual conference	2017
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Honorable Mention , “Data for green infrastructure: defining monitoring, evaluation, and data collection technologies for calculating performance metrics,” <i>Proposal</i> , ImagineH2O’s California Water Policy Challenge	2017
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Finalist , “California Water Data Challenge for Coping with the California Drought: 2014-2016,” <i>Interactive data visualization portal</i> , State of California & White House Council on Environmental Quality	2016
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Winner , Student Video Competition, Vail Global Energy Forum	2015
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Awardee , Joan W. Miller Scholarship, Juneau Icefield Research Program (\$1,450)	2014
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Awardee , Femineer’s Scholarship Fund, Stanford University (\$5,000)	2013–2014
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RECENT LEADERSHIP AND SERVICE

Student Mentor , Green Academy at Woodside High School	2017–2018
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Treasurer (2015/16), Campus Rep (2016/17), Student Leadership Committee, ReNUWit	2015–2017
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Volunteer Educator , Tuolumne River Trust	2015–2016
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Founding Member , Environmental & Water Studies Graduate Student Committee, Stanford	2014–2016
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