contact

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Water Diplomacy IGERT
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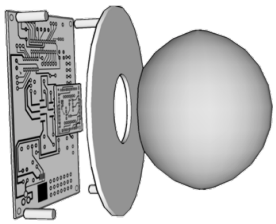
United States of America

web

GitHub: Kevin-M-Smith

programming

Python, R, Javascript, C, C++, Java, VBA, & PHP



research interests

Exploring emerging pathways for the peaceful promotion of access to food, sanitation, and clean water as human rights. Can we make the best of a globalized world where it is more common to own a mobile phone than to have access to a secure source of water? Can existing infrastructure be used grow inclusive worldwide networks for recording, reporting, and responding to environmental data? What roles do citizen science, hydroinformatics, the maker culture, and STEM education play in realizing a democratic resource management future?

education

2013–Now **PhD. Student** in Environmental and Water Resources Engineering — Tufts University
NSF IGERT Fellow in Water and Diplomacy

2011–2013 **Bachelor of Science** Earth and Environmental Engineering — Columbia University
Water Resources and Climate Risks, Cum Laude, Tau Beta Pi

2008–2013 **Bachelor of Arts** Environmental Studies, min. Physics — Oberlin College
Effects of Real-time Feedback on Consumptive Behavior

experience

2013–Now **Emerging Leaders in Technology and Engineering, Inc.** — New York, New York
Product Development Engineer
Developing field-ready backpack-sized computer science laboratories.

2013–Now **Stroud Water Research Center** — Avondale, Pennsylvania
Engineering Intern
Developing a prototype for an open-source educational environmental sensor kit. Published an open-source Arduino library for direct integration with SDI-12 based environmental sensors on GitHub.

2008–2009 **Columbia Water Center** — New York, New York
Undergraduate Researcher
Studied systems for in-situ soil moisture monitoring and reporting through self-repairing wireless mesh networks; worked towards ultra low-cost solution.

2009–2012 **OpenOrb Project** — Oberlin, Ohio
Lead Designer
Designed and assembled open-source Wi-Fi integrated color changing light fixtures for providing resource use feedback.

awards

2013–2015 **IGERT Fellowship in Water and Diplomacy** — National Science Foundation

2013–2014 **Dean's Fellowship** — School of Engineering, Tufts University

2011 **Joyce Gorn Memorial Prize** — Environmental Studies Program, Oberlin College

publications

Jain RK, Smith KM, Culligan PJ, Taylor, JE. *Forecasting Energy Consumption of Multi-Family Residential Buildings Using Support Vector Regression: Investigating the Impact of Temporal and Spatial Monitoring Granularity on Performance Accuracy.* Appl Energy (2014), http://dx.doi.org/10.1016/j.apenergy.2014.02.057