Christopher Tull

Public Technologist

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About me

I help water managers and other public servants to realize the value in their data.

Often this involves a combination of creative data integration, system engineering, applied R&D, and software development to streamline critical processes.

Skills

- Python
- SQL
- AWS
- R
- Excel
- Product Mangement
- Machine Learning
- Javascript

Git and Github⋆5 Apache Airflow⋆4
Java⋆2 C and C++⋆2

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Experience

3/19-Now — Project Manager — California Data Collaborative
Lead a lean nonprofit team to develop applied research and precision analysis for water agencies. Oversee execution of a statewide conference on data science in California's water industry. Guide product vision and manage stakeholder expectations for the overall success of the organization.

1/16-3/19 — Lead Data Scientist — California Data Collaborative
Technical lead for data analysis and software development. Conducted a rapid policy assessment informing statewide policy discussions around AB 1668 and SB 606. Developed tools to analyze and publish open data on water pricing. Led statistical program evaluation to guide investment of millions of dollars in water efficiency.

1/18-Now — Independent Consultant
Digital process improvement and data systems for municipal clients.

1/15-12/15 — Research Assistant — NYU - Urban Intelligence Lab
Developed official energy/water benchmarking data-viz website for City of New York Office of Sustainability. Predicted energy use for 1.1 million buildings in NYC and published in peer-reviewed journals and conferences.

Summer '14 — Software Engineer Intern — GBL Systems Corporation
Rapidly-prototyped a proximity awareness module for Android apps.

12/12-3/14 — Research Assistant — Max Plank Institute
Developed novel algorithms to detect cellular features in microscope images to support a computational neuroanatomy lab.

Education

2015 — M.S. Urban Informatics — New York University

2014 — B.S. Mathematics and Computer Science — CSU Channel Islands

2013 — Study Abroad: German & Computer Science — Universität Tübingen

Selected Publications

2018 — Schmitt, E., Tull, C., & Atwater, P. (2018). Extending Bayesian structural time-series estimates of causal impact to many-household conservation initiatives. *The Annals of Applied Statistics*, 12(4), 2517-2539.

2017 — Kontokosta, C. E., & Tull, C. (2017). A data-driven predictive model of city-scale energy use in buildings. *Applied Energy*, 197, 303-317.

Awards

2018 — Moonshot Award - California Safe Drinking Water Data Challenge

2015 — Best Paper - Bloomberg Data for Good Exchange 2015

Volunteering

10/18-Now — Oxnard Team Lead — Ventura County Climate Hub
Technology and strategy support for decarbonization efforts.

2015-Now — Volunteer — Foodshare of Ventura County
Harvest donated produce, pack food, pick up donations from local grocery stores.