5th November 2017

Christopher Tull

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LINKS

Bio: **christophertull.org**
Company: **argolabs.org**
Github: **christophertull**
LinkedIn: **ctull**

PROGRAMMING

Daily use:
Python • R • SQL
markdown

Regular use:
Javascript • HTML • bash

Prior professional use:
Java • C++ • C

Tools & Utilities
Amazon Web Services
Apache Airflow • Git
Excel • RStudio • PyCharm

AWARDS

Best Urban Water Tool
California Water Data Challenge
2016

Best Paper
Bloomberg Data for Good Exchange
2015

PROJECTS

Open Water Rate Specification
Open data format for water rates

RateComparison
Forecast the impact of alternate water rate structures

Statewide Efficiency Explorer
Understand the impact of water efficiency targets in CA

NYC Benchmarking
Visualizing energy use in large buildings

EXPERIENCE

ARGO | Lead Data Scientist
Jan 2016 - Current

- Work with water managers through California Data Collaborative
- Design and build data pipelines to integrate water data from across California
- Created first-ever implementation of Gov. Brown's Executive Order B-37-16
- Developed a suite of tools for analyzing water rates
- Statistical analysis of the impact of water conservation measures

TULL DATA SYSTEMS | Principal
Current

- Design and build cloud-based big data systems
- Training in data science best practices

NYU - URBAN INTELLIGENCE LAB | Research Assistant
Jan 2015 - Dec 2015

- Developed official energy benchmarking website for City of New York
- Predicted energy use for 1.1 million buildings in NYC
- Published in peer-reviewed journals and conferences

GBL SYSTEMS CORPORATION | Software Engineer Intern
Summer 2014

- Rapid-prototyped a proximity awareness module for Android applications

MAX PLANCK INSTITUTE | Research Assistant
Dec 2012 – Mar 2014

- Developed novel algorithms to detect cellular features in microscope images

EDUCATION

2015	New York University	M.S. Urban Informatics
2014	CSU Channel Islands	B.S. Mathematics & Computer Science
2013	Universität Tübingen	Study Abroad: German, Computer Science

PUBLICATIONS

Schmitt, E., Tull, C., and Atwater, P. "Extending Bayesian structural time-series estimates of causal impact to many-household conservation initiatives." Submitted to the Annals of Applied Statistics.

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

Tull, C., Schmitt, E., Atwater, P. (2016) "How Much Water Does Turf Removal Save? Applying Bayesian Structural Time-Series to California Residential Water Demand." Knowledge Discovery and Data Mining.

Atwater, P., Tull, C., Schmitt, E., Lopez, J., Atwater, D., & Adibhatla, V. (2016). "Transforming how water is managed in the West". Bloomberg Data for Good Exchange.

Kontokosta, C., Tull, C., Marulli, D., Pingerra, R., & Yaqub, M. (2015). "Web-Based Visualization and Prediction of Urban Energy Use from Building Benchmarking Data." Bloomberg Data for Good Exchange.