



BRIAN COFFEY

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 bricof
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EXPERIENCE

Stitch Fix, Data Scientist Aug 2015 - Oct 2017, May 2018 - present

- Developing tools and performing business analysis as part of the Algorithms team
- Projects have included the development of a stylist management tool, conception and prototyping of an automated photo-based measurement system, a major tech-branding scrollytelling animation, and an interactive forecasting tool for operations management

Atelier Ten, Environmental Designer / Research Associate 2010-2012, 2015, Feb-Apr 2018

- Advised architecture and engineering project teams on energy efficient design
- Developed Python and AWS extensions to energy analysis tools for interactive design and analysis

Lawrence Berkeley National Lab, Principal Scientific Engineering Associate 2013 - 2014

- Developed and tested methods for optimization-based control of building systems using photometric and thermodynamic system models, cloud computing and embedded computing
- Modeled large stocks of buildings for portfolio efficiency and policy analysis, including for the UK in an overlapping position as Research Associate at the University College London Energy Institute
- Research career stats, including previous positions at LBNL, NRCAN and Public Works Canada: 8 journal papers, 13 refereed conference papers, google scholar: 880 citations, h-index=11

Also:

- Freelance software development and consulting. Clients have included Kinestral, Vistar Energy, National University of Ireland Galway, SuPerB, Apidae Labs. Various periods from 2012-2018.
- Founded and operated Texture Data & Design, Inc (2016-2018), to house some consulting work.
- Advisory Roles: Valkyrie Intelligence (2017-), Atelier Ten (2018-), Xerohome (2018-)

EDUCATION

Ph.D., Architecture, University of California Berkeley 2011

Minors: Controls (Mech Eng), Operations Research

M.A.Sc., Building Engineering, Concordia University (Montreal) 2008

Preceded by undergraduate Mechanical Engineering courses at U Victoria (2002-2005)

B.A.Sc.{Hon}, Arts & Science, McMaster University 2003

Also: Insight Data Science Fellow (2015), HBX | Harvard Business School CORE (2016)

SKILLS

Data Analysis and Backend: Python (Pandas, Numpy, SciPy, SciKit-Learn), some R, SQL, AWS

Data Visualization and Frontend: D3, React

Design: Rhino, Adobe Illustrator

Simulation and Optimization: EnergyPlus, Radiance, WUFI, SimCon (Python library, author)