

# BRIAN COFFEY

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## EXPERIENCE

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**Freelance**, Consultant and Developer Various periods from May 2012 - present

- Software development and consulting in data science and architectural engineering. Clients have included Xerohome, Nat. University of Ireland Galway, Uni. College London, SuPerB, Apidae Labs.
- Founded and operated Texture Data & Design, Inc, Aug 2016 - present, to house some of this work.

**Stitch Fix**, Data Scientist Aug 2015 - Oct 2017

- Developed tools and performed business analysis as part of the Algorithms team
- Projects 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

**Insight Data Science**, Fellow June - July 2015

- Built a Pageturner app, which combines musical OCR with auditory note recognition and sequence alignment to search sheet music in a library and scroll or turn the pages while playing
- Developed demonstration prototype with AWS, MySQL, Pandas, Flask, jQuery, Bootstrap and D3

**Lawrence Berkeley National Lab**, Principal Scientific Engineering Associate Mar 2013 - Feb 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 research positions at LBNL and Public Works Canada: 8 journal papers, 12 conference papers, 770 citations, h-index=10

**Atelier Ten**, Environmental Designer 2010-2012

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

## EDUCATION

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**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

## SKILLS

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Analysis: Python (Pandas, Numpy, SciPy, SciKit-Learn), R, AWS, SQL  
Visualization and Design: JavaScript (D3, React), Adobe Illustrator, Rhino