IAN ROSE

Data scientist/geologist

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WORK

2018-present **Quansight**

Software Developer

Contractor developing tools and integrations for data science practitioners.

2016-present **Berkeley Institute for Data Science**

Postdoctoral Fellow

Core developer for Project Jupyter. Developing JupyterLab, the next-generation frontend for Jupyter notebooks.

EDUCATION

2009-2016 **The University of California, Berkeley**

Ph.D.

Earth and Planetary Science
Thesis: *True polar wander on convecting planets*

2005-2009 **Yale University**

B.S.

Geology and Physics

COMPUTING

Languages

C, C++, Javascript, Typescript, Python, MATLAB/Octave, SQL, bash, awk, HTML, CSS

Methods

Ordinary/partial differential equations, GIS analysis, visualization and mapping, Monte Carlo sampling

Software

LaTeX, git, node, Jupyter notebooks, standard *nix tools

Operating systems

Linux, Mac OS X, Windows

SELECTED SOFTWARE PROJECTS

JupyterLab

Next generation front-end for Jupyter. (core developer)

Commuting Operation

Web application for what I want out of a real-time transit arrival service. (author)

Interactive Earth

Educational software for teaching about the physics of planetary interiors, including thermal and thermochemical convection and seismic tomography. (author)

ASPECT

Finite element software for mantle and lithospheric dynamics simulation. (frequent contributor)

BurnMan

Python library for generating thermodynamic and thermoelastic models of planetary materials. (co-author)

buckinghampy

Educational Python module for performing dimensional analysis. (author)