

# Scott Huberty

CogSci PhD | (Data-) Scientist | Research Software Engineer

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[Github](#)



[LinkedIn](#)

## PROFESSIONAL STATEMENT

I have extensive expertise in data science, applied statistics, experimental design, and research software engineering.

## EDUCATION

**McGill University** — *Ph.D. (Cognitive Neuroscience)*

SEP 2017 - DEC 2023

**University of Washington** *B.A. (Psychology)*

SEP 2011 - JUN 2013

## EXPERIENCE

**University of Southern California - Research Fellow**

JAN 2024 - PRESENT

I applied Machine Learning to neuroimaging, e.g. I [built a novel deep learning model](#) (LSTM) to denoise neuroimaging data (EEG)

**Google / Python Software Foundation— Summer of Code Fellow**

MAY 2023 - AUG 2023

I developed a [Python package](#) for eye-tracking data analyses

**Montreal Neurological Institute — Doctoral Scientist**

SEP 2017 - DEC 2021

I built [end-to-end neuroimaging data pipelines](#), featuring outlier detection, unsupervised learning (ICA), Deep Learning (CNN), and a frontend dashboard.

**Vanderbilt University — Research Software Engineer**

JAN 2021 - Jan 2024

I engineered and [shipped containerized analytical pipelines](#) that doubled data retention by 50%, facilitating output of scientific publications.

**University of California Los Angeles — Project Manager**

JUL 2014 - Sep 2017

I helped secure over \$1 million dollars in research funding from the NIH and DoD for scientific research

## TECHNICAL STACK

- **Python:** Scientific & ML stack
- **Flask, Dash**
- **DevOps:** Docker, Git, CI/CD.
- C++, Rust
- SQL

## SELECTED PROJECTS

I contribute to the following open-source packages

[MNE-Python](#): the de facto Python neuroscience library: statistics, ML, signal processing, and more.

[Xarray](#): Like Pandas/Polars but for multidimensional data. 3D, 4D, and more!

[Nibabies](#): MRI analyses for infant brains.

[PyLossless](#): Neuroimaging analysis pipeline that leverages deep learning.

## AWARDS

**Google Summer of Code Fellowship:** \$10,000

**Open Science Award:** \$5,000