

Daniel Jon Peterson

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Skills

General: Data analysis pipelines, High performance computing, Statistics, Visualization, Data ethics

Programming languages: bash, R, python, java, MATLAB, Mathematica

Other systems and tools: AWS (S3, EC2, Batch), Docker, github, Jupyter, Terraform

Experience

Research Engineer III **University of Washington** **Apr 2015-Present**

- Created and maintained a variety of data processing pipelines for medical images, and executed them on a high-performance computing cluster.
- Took a lead role in modernizing research group practices to use AWS, github, python and R.
- Worked directly with research subjects and clinical trial participants from challenging populations, such as patients with epilepsy, people with advanced dementia, and people currently in hospice care.
- Extracted biological meaning from diverse data sets using advanced statistics, graph theory, and machine learning techniques, resulting in multiple scientific publications (h-index=9).

Data Engineering Fellow **Insight Data Science** **Sep 2019-Sep 2020**

- Developed a webservice to make it easy for people to get 3D prints of their brain from an MRI.
- Scaled-up and productionized a computationally intensive image processing pipeline, run on AWS Batch, deployed with Terraform, and a frontend made with Flask (python).
- Served public users, and conducted a successful stress-test of many concurrent simulated users.

Research Assistant **The Kennedy Krieger Institute** **Jan 2012-Apr 2015**

- Designed image processing workflows in bash and MATLAB that were used for years afterwards.
- Assisted in writing successful grants to both governmental and private funding sources.

Graduate Research Assistant **Johns Hopkins University** **Aug 2010-Jan 2012**

- Purified isotopically enriched proteins, and performed magnetic resonance experiments.
- Completed advanced coursework in quantum mechanics, and computational chemistry.

Education

BA in Chemistry **Lewis & Clark College, Portland, OR** **May 2006**