

Travis Meyer

Senior Data Scientist

Data Scientist with a Neuroscience PhD and fifteen years of experience in analyzing large data sets and formulating data-driven insights using machine learning algorithms for Top-Tier Research Institutes. Worked in teams of 4-8 team members.

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[Publications](#)

EXPERIENCE

University of Pennsylvania, Philadelphia, PA

Research Project Manager

July 2019 – Present

- Delivered technical analyses to diverse audiences at 10+ public seminars and conferences, demystifying complex subjects and boosting comprehension rates by 40% among non-technical attendees.
- Led a team of 4 peers to develop new research products for a new animal model, streamlining experimental throughput by 50%..
- Created local implementation of large language models (Llama/Mistral) to maintain up-to-date AI/ML communities on data automation and reinforcement learning best practices.
- Devised a novel experimental paradigm to measure the evolutionarily conserved neural circuits using parametric and non-parametric methods. The publication ranked in the 97% of scientific articles.

University of Pennsylvania, Philadelphia, PA

Senior Scientist

January 2015 – July 2019

- Developed TravNet, a custom convolutional neural network that automates standard pipeline; saving experimenter time by 25%, and managed version control on GitHub.
- Advanced experimentation culture by establishing best practices, consulting on countless study designs and analyses, mentoring analysts, and conducting enterprise-wide experimentation training.
- Created an on-premise compute cluster of NVIDIA GPUs (Ampere architecture) that utilized Docker containers on Proxmox virtual machine environments and accessible via APIs through Cloudflare secure tunnels, reducing the MLops budget by 75%.
- Implemented a novel data wrangling procedure that couples unsupervised learning (principal component analysis) and signal processing models to preprocess data collection

Carnegie Mellon University, Pittsburgh, PA

Postdoctoral Fellow

September 2008 – January 2015

- Engineered a suite of tools in Matlab to regulate visual display and synchronize neural signals with behavioral responses, enhancing research accuracy and reducing experimental error rates by 40%.
- Led strategic initiative to standardize experimental results and organize cross-functional data in SQL database format, increasing the annual publications by 20%.
- Spearheaded research projects modeling primate vision to create computer vision algorithms, published in 10+ peer-reviewed journals.

EDUCATION

Wake Forest University

Doctorate: Neuroscience

May 2008

Winston-Salem, NC

SKILLS

Machine learning (regression and classification)
Deep Learning (convolutional neural networks)
Applied Statistics
Mentoring
Scientific communication
Pandas
Scikit-learn
Git and skills

LANGUAGES

Python
MySQL / SQL
Matlab
R

CERTIFICATIONS

Coursera: Machine Learning
Coursera: R Programming