

# WILL FINDLEY

DATA SCIENTIST

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## Education

NYU

Ph.D. in Biophysics and Neurophysiology

2013

Used statistical learning algorithms (independent and principle component analysis, linear regression analysis, multiple comparison statistics) and signal processing techniques (filtering, spectral analysis, epoched data analysis) to analyze inverse problem solutions to modeled biophysics of hundreds of gigabytes of human brain magnetic activity. Published work in *PNAS* and *Nature Neuroscience*. NIH grant, h-index: 5, Erdős number: 4

Graduate quantitative coursework taken at Courant in statistics, bioinformatics, numerical linear algebra, numerical differential equations, and quantitative biological modeling, in addition to neuroscience coursework. GPA 3.9/4.0

Caltech

B.S. in Engineering and Applied Science

2003

Quantitative coursework included neural networks, econometrics, linear algebra, probability, statistics, ordinary/partial differential equations, complex analysis, physics including thermodynamics and quantum mechanics, many mechanical engineering courses. GPA 3.2/4.0

## Experience

Dalton

Computer Science and Data Science Instructor

2011-2015

Taught various computational courses, including: "Data Science", following *The Elements of Statistical Learning* by Hastie et al. and *Probability Theory* by Jaynes; "Scientific Argument Analysis", critiquing structured data analysis and multiple comparison statistical significance in current *Nature* and *Science* papers; "Computational Informatics", following *Introduction to Algorithms* by Cormen et al.

Science Research Program Co-Director

2011-2015

Coordinated roughly 50 student research projects, and personally mentored half-a-dozen. Provided intellectual support to scientific literature analysis for outside lab work and validated student research output. Research, including by personal mentees, was honored by both Intel and Siemens and presented at professional conferences.

NYU Medical Center

Research Assistant

2003-2011

## Projects

### Kaggle Techniques

Username blah. Results for individual competitions and code exemplifying development of technical skills, using Python, R, Matlab, Hadoop, Slack, SQL, and AWS.

### Evolving Brains

I am most interested in learning how to create AI through evolving bayesian networks. Though still a nascent idea, some of my progress can be seen here.

### False Positives

Developed a multiple comparison controlling procedure using a beta-uniform mixture model cumulative density function to determine q-values and false discovery rate.

## Technical

Python

R

Matlab

Hadoop MapReduce

Slack

SQL

C/C++

Java

AWS

