

JoshuaFriedman PhD

Data Scientist

contact

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<http://www.smith.com>

machine learning

logistic regression
random forest
naïve bayes
neural network

science

computational biology
magnetic resonance
synthetic biology
dna damage repair

programming

♥ JavaScript
Python, C++, PHP
CSS3 & HTML5

programming

♥ **python:** scikit-learn, pandas, numpy, scipy, flask, matplotlib, cython **database:** mysql, json, mongodb, hdf **matlab:** signal processing, optimization toolbox **web:** html, javascript, d3.js
general: git, regex

experience

Working

- 2013–Now **NYU Langone Medical Center** New York, NY
Department of Radiology
- Accelerated numerical simulations ~10x by implementing memoization algorithms to recognize and pre-cash simulation invariant systems of non-homogeneous differential equations.
 - Implemented L1-norm reconstruction algorithms that reduced MRI scan time requirements in half.
- 2014–2015 **Department of Defense -- Research Directorate** Washington, DC
Science & Technology Policy Fellow AAAS
- Established bilateral research collaborations in quantum science & technology with the United Kingdom Ministry of Defence.
 - Resolved contracting disputes between DoD research granting agencies and universities.
- 2011–2013 **University of Washington** Seattle, WA
Institute for Protein Design
- Implemented bilateral research collaborations in quantum science & technology with the United Kingdom Ministry of Defence.

Side Projects

- 2010–2011 **LEHMAN BROTHERS** London, United Kingdom
Summer Intern
- Received pre-placed offer from the Exotics Trading Desk as a result of very positive reviews. Rated "truly distinctive" for Analytical Skills and Teamwork.
- 2008–2009 **Buy More** Burbank, California
Computer Repair Specialist
- Worked in the Nerd Herd and helped to solve computer problems by asking customers to turn their computers off and on again.

education

- 2005–2011 **PhD Biophysics** Johns Hopkins University
Authored 8 research publications (Nature, Biochemistry, JACS, *et al.*) | Book on DNA repair | Patent for MRI technology.
- 2001–2005 **BS Biochemistry & Molecular Biology** Pennsylvania State University
Specialization in Commerce

awards

2011

Postgraduate Scholarship

School of Business, The University of California

Awarded to the top student in their final year of a Bachelors degree. Mastered the art of filing accurate TPS reports.

communication skills

2011

Oral Presentation

California Business Conference

Presented the research I conducted for my Masters of Commerce degree.

2010

Poster

Annual Business Conference, Oregon

As part of the course work for BUS320, I created a poster analyzing several local businesses and presented this at a conference.

interests

professional: data analysis, company profiling, risk analysis, economics, web design, web app creation, software design, marketing **personal:** piano, chess, cooking, dancing, running

publications