Joshua Friedman PhD

Data Scientist

contact

545 1st Ave; Apt 2F New York, NY 10016

josh.nmr@gmail.com≤ +1 (213) 537 4331☎

http://www.smith.com

machine learning

logistic regression random forrest nïave bayes neural network k-means clustering

science

computational biology magnetic resonance synthetic biology dna damage repair

programming

JavaScriptPython, C++, PHPCSS3 & HTML5

programming

python ♥: scikit-learn, pandas, numpy, scipy, flask, matplotlib, cython

database: mysql, mongodb, json, hdf

matlab: signal processing, optimization toolbox **web:** html, javascript, d3.js | **general:** git, regex, linux

experience

Working

2013-Now **NYU Langone Medical Center**

Department of Radiology

• Accelerated numerical simulation runtimes ~10x by implementing memoization algorithms to recognize and pre-cash simulation invariant systems of nonhomogeneous differential equations.

New York, NY

Washington, DC

Seattle, WA

• Implemented L1-norm reconstruction algorithms that cut MRI scan time requirements by half.

2014–2015 **Department of Defense -- Research Directorate**

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

Institute for Protein Design

• Implemented bilateral research collaborations in quantum science & technology with the United Kingdom Ministry of Defence.

Side Projects

Homsite Conversion scikit-learn, pandas, numpy, scipy, flask, matplotlib, cython **Voting Conformity Web App** scikit-learn, pandas, numpy, scipy, flask, matplotlib, cython **Science Word Cloud** scikit-learn, pandas, numpy, scipy, flask, matplotlib, cython

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**

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