

# NICHOLAS R. PETERSON

Sunnyvale, CA • 614-477-8412 • nrpeterson@gmail.com  
nrpeterson.info • linkedin.com/in/nrpeterson • github.com/nrpeterson

## Relevant Experience

---

**Fellow at Insight Data Science**, Palo Alto, CA. June 2014-present

- Developed a web app to present users of Math.StackExchange with questions to answer that are both high-quality and tailored to their interests.
- Fetched data on questions and answers through the StackExchange API using a wrapper I wrote in Python, then stored them in a MySQL database. Performed text analysis in scikit-learn to train predictors of question quality and content tags.
- Built a front-end using Flask, jQuery, and Bootstrap, and deployed it to AWS.

**Graduate Mathematics Researcher at The Ohio State University**, Columbus, OH. 2007-2013

- Studied the structural properties of probabilistic models of large-scale networks.
- Simulated random graphs/stochastic processes in Python and Mathematica to guide research.

**Web App Developer for Michigan Tech Mathematical Sciences**, Houghton, MI. 2005-2007

- Developed web apps (PHP/MySQL), including a department directory which faculty/staff could update themselves, a scheduling/time clock app for the labs, and an app for distributing, receipting, and grading Mathematica labs using barcodes.

## Relevant Skills

---

**Languages:** Python, Mathematica, SQL, Javascript. Previous experience with PHP, C/C++, Java, Octave, and R.

**Tools:** Numpy, Scipy, Scikit-Learn, Flask, BeautifulSoup, SQLAlchemy, jQuery, Bootstrap.

**Other Skills:** Graph/algorithm analysis, probability, applied machine learning.

## Education

---

**Ph.D. in Mathematics, The Ohio State University**, Columbus, OH. August 4th, 2013

Specialized in analysis of algorithms and models for random graphs/digraphs.

**B.S. in Mathematics, Michigan Technological University**, Houghton, MI. May 5th, 2007

Discrete Mathematics concentration. Graduated *Magna Cum Laude*.

## Selected Honors

---

- Runner-up, *Phil Huneke Excellence in Teaching Award*, Ohio State Mathematics. 2010
- *Math Achievement Award* and named *Department Scholar*, Michigan Tech Math. Sciences. 2007