#### Los Angeles, CA **☎** 321.613.8838 $\bowtie$ frederick.robinson@gmail.com 🗓 linkedin.com/in/frrad

# Frederick Robinson

## Education

- 2014 Master of Arts in Mathematics (Expected), University of California Los Angeles.
- 2012 Bachelor in Mathematics with Honors, Northwestern University, 3.62 (Major GPA). Robert R. Welland Prize for Outstanding Achievement in Mathematics by a Graduating Senior Honors thesis on *Persistant Homology* under David Nadler
- 2008 High School Diploma.

### Research Programs

- 2010 Discrete and Continuous Geometry, Selected for and attended two week research conference at Northwestern University.
- 2010 Number Theory Research, Funded to conduct research on cyclotomic integers under Prof. F. Calegari.
- 2011 Indiana University Research Program, NSF funded project investigating phylogenetics with Prof. E Housworth.

#### Jobs

- 2012-2013 **Teaching Assistant**, Conducted recitations for undergraduate classes.
  - 2010 Physics Programming, Coded in C leveraging GNU Scientific Library to simulate gravitational waves from intermediate mass ratio inspiral.

### Computer Skills and Interests

Proficient Go, Mathematica, Python

Basic Java, C

Miscellaneous Windows, Microsoft Office, Linux, LATEX

Algorithms Greedy optimization, divide and conquer, dynamic programming, network flows, reductions,

and randomized algorithms. Computational tractability (NP-completeness).

Machine Regression: regularization; Neural Networks: backpropogation; SVMs; Unsupervised learning:

clustering, dimensionality reduction; Recommender Systems Learning

#### Languages

English Fluent

Spanish **Proficient**