Frederick Robinson

Los Angeles, CA
☎ *321.613.8838*
✉ *frederick.robinson@gmail.com*
🖰 *linkedin.com/in/frrad*

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 Experience

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.*

Employement

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 Learning	Regression: regularization; Neural Networks: backpropogation; SVMs; Unsupervised Learning: clustering, dimensionality reduction; Recommender Systems

Publications

Frederick Robinson and Michael Wurtz. On the magnitudes of some small cyclotomic integers. *Acta Arithmetica*, 160(4):317–32, 2013.

Languages

English	**Fluent**
Spanish	**Proficient**