daniel_file@freddiemac.com

(703) 442-2675

PROFESSIONAL Freddie Mac McLean, VA

Ouantitative Analytics Senior EXPERIENCE

Sep 2015- present

■ Audited financial models and communicated quantitative results to business stakeholders

The Data Incubator Washington, D.C.

Jun 2015- Aug 2015

■Analyzed 250,000 loans from lendingclub.com and created a model to predict loan default with 72% recall

Muhlenberg College Allentown, PA

Visiting Assistant Professor of Mathematics

Aug 2013- May 2015

- Conducted original research in number theory to compute special values of L-functions which I presented at national and international conferences
- Supervised a student research team, found evidence to support an open conjecture in number theory using Python and C
- Did statistical analysis on cortisol data for a University of Pennsylvania lab using R leading to publication
- Developed statistics curriculum using R and RStudio statistical software

University of Iowa Iowa City, IA

Visiting Assistant Professor of Mathematics

Jul 2010- Aug 2013

- Conducted original research on automorphic L-functions leading to publication in leading peer reviewed mathematics journals
- Taught undergraduate and graduate mathematics courses; Taught a mini-course on Algebraic Groups at Chinese Academy of Sciences, Beijing

EDUCATION

The Ohio State University Columbus, OH

Ph.D. in Mathematics

Jun 2004- Aug 2010

The Ohio State University Columbus, OH

B.A. in Mathematics

Sep 2000- Jun 2004

Magna cum laude, with honors in the arts and sciences, with distinction in mathematics, Phi Beta Kappa

SKILLS

Python: pandas, scikit-learn, numpy, and matplotlib libraries; Git

Trained in Hadoop by Hortonworks; Experience with Spark, C, and Scala

Honors

\$4000 American Mathematical Society / Simons Foundation Travel Grant

The Ohio State University Presidential Fellowship: one year fellowship for outstanding research

INVITED LECTURES

Erwin Schrodinger Institute for Mathematical Physics, Vienna; Morningside Center of Mathematics Chinese Academy of Sciences, Beijing; Joint Meetings of AMS/MAA, Baltimore; Temple University; U. of

Oklahoma; Texas A&M; Purdue; Clemson

SELECTED

File, Daniel. On the degree five L-function for GSp(4). Trans. Amer. Math. Soc. 365 (2013), no. 12, 6471–6497.

PUBLICATION