

Daniel Miller

MATHEMATICIAN — DATA SCIENTIST

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Summary

I'm a math Ph.D. student whose work centers on the statistics of large data sets coming from number theory. I can quickly assimilate the latest research in the area, turn that into an algorithm, and then use cloud-based computing techniques to apply that algorithm to large data sets.

Education

Cornell University

Ithaca, NY

PH.D. IN MATHEMATICS

August 2012–May 2017

- Oversaw logistics and planning for a combined course load of 300 students in one semester.
- Taught abstract concepts in a classroom setting. I've also tutored grad students in advanced topics.
- Courses relevant to data science: Smooth Manifolds, Algebraic Topology, Real Analysis, and Algebraic Groups.
- Won the Eleanor Norton York Award on the basis of my achievements.

Cornell University

Ithaca, NY

MASTER'S IN COMPUTER SCIENCE

August 2015–May 2017

- Cloud computing project
- Relevant courses: Cloud Computing, Distributed Computing, Operating Systems.

University of Nebraska Omaha

Omaha, NE

B.S. IN MATHEMATICS

August 2009–August 2012

- Minor in Computer Science, graduated *summa cum laude*, with Highest Honors in Mathematics.

Research Experience

Computational statistics of elliptic curves

CORNELL UNIVERSITY (PHD)

August 2015–May 2017

- Bla bla

Summer Mathematics Institute

CORNELL UNIVERSITY (UNDERGRADUATE)

Summer 2011

- With A. Weson, C. Kelleher, and T. Osborn, constructed a complex new example that disproved a long-standing conjecture. Our work was published *Topology and its Applications* and *Journal of Mathematical Analysis and Applications*

Arizona Winter School

UNIVERSITY OF ARIZONA

May 2016

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Fund for Undergraduate Scholarly Experiences

UNIVERSITY OF NEBRASKA OMAHA

Summer 2012

- Created a simpler and more robust approach to a recent and important theorem in Hopf–Galois theory.

Skills and Activities

Programming: I'm competent in C#, Java, Python, C, and \TeX .

Resident Advisor

Ithaca, NY

CHESTERTON HOUSE

August 2013–May 2014

- Coordinated living responsibilities and events for a household of 15 men.