DANIEL MILLER

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Summary

Data scientist working with Microsoft's Analysis and Experimentation team. Team does internal A/B-testing consulting. Extract, transform, load, and analize large data sets, data pipelines, statistical rigor. Have experience developing scalable algorithms in a team environment, visualizing complex data, and communicating ideas to a diverse audience. Interested in leveraging mathematical skills to glean business insights from real-world data sets in a fast-paced, collaborative environment.

Experience

DATA SCIENTIST, MICROSOFT   *June 2017–present*
- MUID-Query sensitivity analysis?
- SLAPI cleanup? Worked with Bing.
- Information gains? Analyzed correlation between results of short and long experiments, leading to greater agility and cost savings.
- Maps Overlay?

PH.D. RESEARCH, CORNELL UNIVERSITY   *August 2013–May 2017*
- Proved precise connections between apparently unconnected topics (discrepancy and Dirichlet series).

ARIZONA WINTER SCHOOL, UNIVERSITY OF ARIZONA   *May 2013–2016*
- Mastered concepts, ran simulations, and proved theorems in a high-intensity one week program.

Education

PH.D. IN MATHEMATICS, CORNELL UNIVERSITY   *May 2017*
- Thesis: *Counterexamples related to the Sato–Tate conjecture*.

M.S. IN MATHEMATICS, CORNELL UNIVERSITY   *May 2017*
- Completed graduate-level coursework in Mathematics and Computer Science.

B.S. IN MATHEMATICS, UNIVERSITY OF NEBRASKA OMAHA   *August 2012*
- Minored in Computer Science, graduated *summa cum laude*, GPA 4.0.

Leadership

Teaching Assistant, *Cornell University*. Coordinated logistics, teaching, and grading for a course with 300 students, 12 faculty, and 12 undergraduate assistants. Assisted in teaching mathematics at undergraduate and graduate levels.

Resident Assistant, *Chesterton House*. Directed event-planning, recruitment, and finances for an academic living center.

Skills

Programming: C#, R, Python, F#, PowerShell, Scala, C, Java, and LaTeX.

Big Data: Microsoft Cosmos, U-SQL, (Scope), SQL, Spark, Microsoft Analytics (Kusto), and Luigi.

Web: Azure, Amazon Web Services (AWS), HTML, and CSS.