

# Hasan Khan

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**Profile:** Current PhD. student looking to enter the data science industry. Strong background in math and science. Experience programming in several languages and working with large data sets.

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## EXPERIENCE

The Ohio State University, Columbus, OH

August 2013 - Present

*Graduate Student, Advisor: Dr. Nandini Trivedi*

Wrote Monte Carlo simulations to model quantum phase transitions in complex physical many-body systems using C++.

Worked with large data sets in Wolfram Mathematica and wrote code to discover trends in imaged Monte Carlo data.

Collaborated on machine learning projects aimed at pinpointing quantum critical points.

Presented results at several conferences and published in several scientific journals.

Pfizer, Drug Safety Research and Development, Groton, CT

May - August 2011

*Summer Intern, Mentors: Dr. Lynne Butler and Dr. Carlin Okerberg*

Imaged pancreatic tissue and looked for trends in data for diabetes research.

Gathered and analyzed data on the possible adverse effects of various pharmaceutical drugs, discovered a notable contamination of the drinking water supply of several cities due to these drugs.

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## TECHNICAL SKILLS

Software and Programming Languages

C, C++, Python, Wolfram Mathematica, Linux, Microsoft Excel, L<sup>A</sup>T<sub>E</sub>X

Selected Coursework

Linear Algebra, Statistical Physics, Mathematical Methods in Physics, Real and Complex Analysis, Introduction to C Programming

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## EDUCATION

The Ohio State University, Columbus, OH

August 2013 - Present

PhD. Physics (in-progress)

Expected May 2018

M.S. Physics

December 2015

Advisor: Nandini Trivedi

University of Rochester, Rochester, NY

January 2010 - May 2013

B.S. Physics and Astronomy

Minor Astronomy