

Ran Cui

DATA SCIENTIST & MATHEMATICIAN

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PROFESSIONAL EXPERIENCE

University of Maryland, Department of Mathematics

RESEARCH ASSISTANT & GRADUATE STUDENT

Aug. 2009 - May. 2016

- Created new formula for the Real-Quaternionic Indicator, which is commonly used by Theoretical Physicists.
- Invited to talk at AMS special sessions at Rutgers University, and the algebra seminar at Yale.
- Lead multiple seminars on Representation Theory.
- Designed the curriculum of and taught Calculus I and Statistics 400.

LEADERSHIP EXPERIENCE

Women in Math - UMD Branch

VICE PRESIDENT

Aug. 2015 - May. 2016

- Jointly organized monthly meetings and activities.
- Scheduled and invited outside speakers.

International Graduate Student Committee

COMMITTEE MEMBER

Aug. 2013 - May. 2016

- Gathered and spread information about grants/fellowships available for non-citizens.
- Organized the annual international potlucks.

EDUCATION

University of Maryland

PH.D. IN MATHEMATICS

Aug. 2009 - May 2016

- Studied Representation Theory and Number Theory. Did in depth research on the Real-Quaternionic indicators and the local Langlands correspondence.
- Won Ralph Pass III Fellowship award for excellence in research in 2015. Given to one student annually.
- Won Spotlight Award in 2016 – a contest prize for explaining technical math to non-experts.

Nankai University

B.S. IN MATHEMATICS

Aug 2005 - Aug 2009

- Collaboratively discovered a new class of solvable Lie algebras in 2008.
- Won Outstanding Senior Thesis award in 2009.

TECHNICAL SKILLS

MACHINE LEARNING ALGORITHMS

Linear Regression, Logistic Regression, K-Means, SVM, Random Forest, Neural Network, Dimensionality Reduction Algorithms

DATA SCIENCE

Reached top 18% on Kaggle challenge using Python and R

PYTHON, R, MATLAB

Intermediate proficiency.

STATUS

Green Card application review in progress, do not need sponsorship.

Work permit start: July 1st, 2016.