

Current: 9348 Cherry Hill Rd, APT 118, College Park, MD 20740. Relocating to Boston, MA in July 2016.

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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 grogress. Do not need sponsorship. Work permit start date: July 1st, 2016.

JUNE 22, 2016 RAN CUI · RÉSUMÉ