Dian Jin

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Education

University of Wisconsin-Madison **September 2021 – May 2023 (expected)**
Master of Arts in Mathematics *Madison, WI*
Visiting International Students Program

Soochow University **September 2017 – June 2021**
BSc in Mathematics *Suzhou, China*

Additional Math Experience

Online Math Education **2020 - present**

- Posted lecture videos of 6 undergraduate courses and 1 graduate course, with 500, 000 views (https://space.bilibili.com/3156848?spm_id_from=333.1007.0.0)
- Currently working on an open-source problem set of real analysis (https://github.com/kumiko-euphonium/real-analysis-problem-set-LaTeX)

Interdisciplinary Contest in Modeling **2019**
Honorable Mentions *Suzhou, China*
- Completed the paper "The Louvre Evacuation Model".

Winter School in Robotics **2019**
Technische Universität Berlin *Berlin, Germany*
- Successfully participated in the TU Berlin winter school: "Introduction to Artificial Intelligence and Robotics".

Online Winter Course in Machine Learning **2021**
Massachusetts Institute of Technology
- Attended the online course "Machine Learning Plus in Deep Learning"
- Completed a project on autonomous driving

Directed Study **Spring, 2022**
University of Wisconsin-Madison *Madison, WI*
- Studied Hardy-Littlewood maximal functions, singular integrals, Hilbert transforms.

Seminar On Analysis **September 2022 – present**
University of Wisconsin-Madison *Madison, WI*
- Studied Hausdorff measures, Frostman's lemma, Hausdorff dimension of projections and distance sets, exceptional projections and Sobolev dimension
- Gave a presentation on L^2 sphere averages and ball averages of the Fourier transform of a measure.

PhD Qualifying Exam **August 2022**
University of Wisconsin-Madison *Madison, WI*
- Passed the PhD qualifying exam in analysis

RTG workshop in harmonic analysis **September 2022**
University of Wisconsin-Madison *Madison, WI*
- Attended lecture series on various topics in harmonic analysis, including Fourier extension estimates, oscillatory integrals, spherical maximal functions, etc.

Grader **Fall 2022**
University of Wisconsin-Madison *Madison, WI*
- Worked as a grader for the graduate-level real analysis course(Math 721)