

Zihan Xia

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Research Interest

Dynamical Systems, especially on Groups, Measure Group Theory, Random Walks, Lie groups

Education

- 2019-Present **Ph.D in Mathematics**, *University of Illinois at Chicago*, Advised by Wouter Van Limbeek
- 2016-2019 **BSc in Mathematics**, *University of Cincinnati*, Cincinnati
"2+2" program with Capital Normal University
- 2015-2019 **BSc in Mathematics and Applied Mathematics**, *Capital Normal University*, Beijing
"2+2" program with University of Cincinnati

Papers

- 2022 **Quantitative Amenability of Actions of Finitely Generated Groups**
<https://zxia22.people.uic.edu/Quantitative%20Amenability%20of%20Actions.pdf>

Teaching Experience

- Fall 2022 MATH 180 Calculus Teaching Assistant
Spring 2022 MATH 180 Calculus Teaching Assistant
Fall 2021 MATH 180 Calculus Teaching Assistant
Summer 2021 MATH 181 Calculus Teaching Assistant
Spring 2021 MATH 181 Calculus Teaching Assistant
Fall 2020 MATH 180 Calculus Teaching Assistant
Spring 2020 MATH 180 Calculus Teaching Assistant
Fall 2019 MATH 310 Linear Algebra Teaching Assistant

Studying Experience

- Fall 2020 MSRI- Random and arithmetic structures in topology
Jul 2019 **Sumemr School of Modern Dynamics**, *Tsinghua University*, Beijing

Other Projects

- 2019 **Elementary Discussion About the Billiard System**, Advised by Shanzhong Sun
2017 **Coupled SIS Model**, Advised by Christopher Jones

Scholarship

- 2016-2018 Two-year tuition in University of Cincinnati supported by the Government of Beijing for "2+2" program
- 2016-2017 UC Global Scholarship Silver Prize by University of Cincinnati
- 2017 Sarah Greenholz Scholar by College of A& S of University of Cincinnati
- 2016 Harry S. Kieval Scholarship by Department of University of Cincinnati