Xiaoping Zhu

Department of Mathematics **Rutgers University** 110 Frelinghuysen Road Piscataway, NJ, 08854, USA

EDUCATION

Rutgers University Ph.D. candidate in Mathematics

- Advisor: Feng Luo
- Thesis topic: Convergence of discrete unformization factors on closed surfaces.

Beijing Normal University

B.S. in Mathematics Outstading graduation students in University.

RESEARCH INTERESTS

Discrete differential geometry, discrete computational geometry, and related applications in computer graphics.

PUBLICATIONS

- 1. The Convergence of Discrete Uniformizations for Closed Surfaces, with Tianqi Wu, submitted
- 2. The deformation space of geodesic triangulations and generalized Tutte's embedding theorem. with Yanwen Luo and Tianqi Wu, submitted.
- 3. The deformation space of geodesic triangulations of flat tori, with Yanwen Luo and Tianqi Wu, submitted.
- 4. The convergence of discrete uniformization factors on sphere, with Yanwen Luo and Tianqi Wu, in preparation.

HONORS AND AWARDS

• Academic Excellence reward, Department of Mathematics, Rutgers University, New Brunswick, 2017.

TALKS

- Geometry/Topology Seminar, Rutgers University New Brunswick, Piscataway, NJ, USA, Feb 2020
- FRG Workshop on Geometric Methods for Analyzing Discrete Shapes, CMSA, Harvard University, Cambridge, MA, USA, May. 2021
- 2021 Graduate Student Topology and Geometry Conference, online, April 2021.

EVENTS ATTENDANCE

- Workshop on Discrete and Computational geometry Jul, 2019 Capital Normal University, Beijing, China
- PCMI 2019 Graduate Summer School: Quantum Field Theory and Manifold Invariants June 30 - July 20 2019 Park City, Utah, USA.
- Circle Packings and Geometric Rigidity

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Sep 2012 - June 2016

Sep 2016 - expected May 2022

July 6-10, 2020, virtual.

• Algorithms in Complex Dynamics and Mapping Class Groups Icerm, Rhode Island, USA.	Nov 2-3, 2019
• FRG Workshop on Discrete Shapes University of California Davis, CA, USA	Sep 20-22 2019

TEACHING EXPERIENCES

Instructor

• MATH 251: Multivariable Calculus

Teaching Assistant

- MATH 477: Linear optimization, Fall 2020
- MATH 251: Multivariable Calculus, Spring 2020
- MATH 421: Ordinary Differential Equations for Physics and Engineering, Fall 2019.
- MATH 244: Differential Equations for Physics and Engineering, Spring 2018.
- MATH 151: Calculus I, Fall 2018.
- MATH 250: Linear Algebra, Fall 2017.

PROFESSIONAL AFFILIATION

• American Mathematical Society

MISCELLANY

- Computer skills: LATEX, Matlab, Maple, Python, C++.
- Languages: Mandarin (Native), English (Fluent)

Summer 2021

2016 - present