

RESEARCH INTERESTS

Partial Differential Equations—parabolic and elliptic equations, homogenization theory, free boundary problems

EDUCATION

University of Utah

PhD of Pure Mathematics

— Expected July, 2026

Salt Lake City, U.S.

2021–Current

Southern University of Science and Technology

Master Student of Pure Mathematics

— Thesis: “Topics on reaction-diffusion equations with large diffusion rate within thin components”

Shenzhen, China

2019–2021

Southern University of Science and Technology

Bachelor of Mathematics and Applied Mathematics

— Thesis: “Review of the model about fast diffusion on a road in a large field using effective boundary conditions”

Shenzhen, China

2015–2019

SEMINARS AND SHORT COURSES

- **Summer Program in Partial Differential Equations** at UT Austin, 2022
Website: <https://analysispde.ma.utexas.edu/summer-program-in-partial-differential-equations-2022/>
- **PIMS-IFDS-NSF Summer School on Optimal Transport** at UW Seattle, 2022
Website: <https://kantorovich.org/event/2022-optimal-transport-summer-school/>
- **Large Deviation Principle and Optimal Transport** at UofU, 2022
Reference materials:
- **17-th Summer School on PDEs** at Jilin University, 2019
- Short Courses: fractional Laplacians, General Relativity, Special Lagrangian Equations

PREPRINTS

1. **Is Mean Curvature Flow a Gradient Flow?** arXiv preprint arXiv: 2212.03701 (2022).

PUBLICATIONS

1. **Homogenization of Enhancing Thin Layers**, Journal of Differential Equations, Volume 282, 2021, Pages 330-369, ISSN 0022-0396, <https://doi.org/10.1016/j.jde.2021.02.024>.