

Zhelin Sheng

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[Github](#)
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Education

University of Rochester

BS in Applied Mathematics and BA in Computer Science

August 2020 – Present

Rochester, New York

Experience

NSF Tripods REU/STEM for All

2022 – Present

University of Rochester

Rochester

- Developed a high dimensional reduction tool that identifies the salient underlying fractal features of the data set.
- Have been exploring the universal approximation in the case when more complicated functions replace Lipschitz functions.

Teaching Assistant

2022 Fall

University of Rochester

Rochester

- Assisted in teaching data structures and algorithms (adversarial search, Bayesian network, multilayer perceptron) in Java.

Research Paper and Preprints

Betti et al. (2022) [Fractal dimension, approximation and data sets](#), arXiv.

Awards and Honors

Dean's List

University of Rochester

2023

Conference and Seminars attended

[ag-conference](#) Topics in microlocal analysis, harmonic analysis, and inverse problems, August 15-17, 2022

Specialized Skills

Programming Languages Proficient: Python, Java, \LaTeX
Familiar: R, Kotlin