Zhelin Sheng

Rochester, New York, 14627

[Github](#)
zhelinsheng@gmail.com

Education

University of Rochester August 2020 – Present
BS in Applied Mathematics and BA in Computer Science *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 Papper and Preprints

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

Awards and Honors

Dean's List
University of Rochester, GPA 3.89 *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