Zheng Shi

Website: https://zheng-shi.github.io • Phone: (401) 527-6699 • E-Mail: zhengshi@princeton.edu

Education History

2018 - Present PhD Candidate in Computer Science, advised by Prof. Felix Heide

Princeton University, Princeton, NJ

2014 - 2018 Sc.B. in Applied Mathematics, with Honor, Magna Cum Laude

Brown University, Providence, RI

Academic Honors

2018 Recipient of Rohn Truell Prize

Annual award to the most outstanding member of the graduating class concentrating in Applied Mathematics at

Brown University

Research Interests:

My research interests are in machine learning for computer vision and computer graphics. I am currently working on developing specialized optics such as diffractive optical elements (DOEs) with end-to-end optimization methods, and vision under harsh conditions.

Publications

ve Cloaking
ve

Zheng Shi, Yuval Bahat, Seung-Hwan Baek, Qiang Fu, Hadi Amata, Xiao Li, Praneeth Chakravarthula, Wolfgang

Heidrich, Felix Heide SIGGRAPH 2022

2021 Centimeter-Wave Free-Space Time-of-Flight Imaging

Seung-Hwan Baek, Noah Walsh, Ilya Chugunov, **Zheng Shi**, Felix Heide ACM Transactions on Graphics (ToG), presented at SIGGRAPH 2022

2021 Low-Cost SPAD Sensing for Non-Line-Of-Sight Tracking, Material Classification and Depth

Imaging

Clara Callenberg, Zheng Shi, Felix Heide, Matthias B. Hullin

SIGGRAPH 2021

2021 ZeroScatter: Domain Transfer for Long Distance Imaging and Vision through Scattering Media

Zheng Shi*, Ethan Tseng*, Mario Bijelic*, Werner Ritter, Felix Heide

CVPR 2021

Experience

2022	Research Intern at Meta Reality	Labs
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2017 Data Scientist Intern at Facebook Search Whole Page Ranking Team

2016 Data Analytics Intern at Facebook Core Ads Team

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Teaching

2020 - 2021 Graduate Assistant Instructor at Princeton University

• COS426: Computer Graphics, *Spring 2021*

• SML201: Introduction to Data Science, Fall 2020, Spring 2020, Fall 2021

2016 Math Group Tutor for Linear Algebra and Honor Calculus at Brown University

2015 Grader for Introductory Calculus and Linear Algebra of Brown University

Outreach

2020 **20K Inspirational Stories Contributor – Día de la Ciencia**

Skills

Python, TensorFlow, PyTorch, MATLAB, R, SQL, LaTex, Git