

# Zheng Shi

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## 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

- 2021              **Centimeter-Wave Free-Space Time-of-Flight Imaging**  
Seung-Hwan Baek, Noah Walsh, Ilya Chugunov, **Zheng Shi**, Felix Heide  
*Arxiv 2021*
- 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

- 2017              **Data Scientist Intern at Facebook Search Whole Page Ranking Team**
- 2016              **Data Analytics Intern at Facebook Core Ads Team**

## 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

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