# Zheng Shi

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## Education History

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|---|---|
| 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

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| 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 2D and 3D reconstruction under harsh conditions.

## Publications

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| 2021 | **Centimeter-Wave Free-Space Time-of-Flight Imaging** <br> Seung-Hwan Baek, Noah Walsh, Ilya Chugunov, **Zheng Shi**, Felix Heide <br> *Arxiv 2021* |
| 2021 | **Low-Cost SPAD Sensing for Non-Line-Of-Sight Tracking, Material Classification and Depth Imaging** <br> Clara Callenberg, **Zheng Shi**, Felix Heide, Matthias B. Hullin <br> *SIGGRAPH 2021* |
| 2021 | **ZeroScatter: Domain Transfer for Long Distance Imaging and Vision through Scattering Media** <br> **Zheng Shi***, Ethan Tseng*, Mario Bijelic*, Werner Ritter, Felix Heide <br> *CVPR 2021* |

## Experience

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

## Teaching

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| 2020 - 2021 | **Graduate Assistant Instructor at Princeton** |

- COS426: Computer Graphics, *Spring 2021*
- SML201: Introduction to Data Science, *Fall 2020, Spring 2020, Fall 2021*

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| 2016 | **Math Group Tutor for Linear Algebra course and Honor Calculus course at Brown University** |
| 2015 | **Grader for Introductory Calculus course and Linear Algebra course of Brown University** |

## Outreach

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