

Jeremy Klotz

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EDUCATION

Columbia University

Ph.D. in Computer Science

Advisor: Shree Nayar

New York, NY

Tentative: 2028

Carnegie Mellon University

B.S., M.S. in Electrical and Computer Engineering

GPA: 4.00 / 4.00

Pittsburgh, PA

May 2022

PUBLICATIONS

Francesco Pasti, **Jeremy Klotz**, Nicola Bellotto, and Shree K. Nayar, “Minimalist Visual Inertial Odometry,” *Preprint*, 2026.

Jeremy Klotz and Shree K. Nayar, “Forecasting Solar Energy Using a Single Image,” *Solar Energy*, 2026.

Jeremy Klotz and Shree K. Nayar, “Minimal Sensing for Orienting a Solar Panel,” *Solar Energy*, 2025.

Jeremy Klotz and Shree K. Nayar, “Minimalist Vision with Freeform Pixels,” ECCV 2024 (**Best Paper Award**).

Shree K. Nayar, **Jeremy Klotz**, Nikhil Nanda, and Mikhail Fridberg, “Cricket: A Self-Powered Chirping Pixel,” ACM Transactions on Graphics (SIGGRAPH), 2024.

Jeremy Klotz, Mohit Gupta, and Aswin C. Sankaranarayanan, “Computational 3D Imaging with Position Sensors,” ICCV 2023 (**Oral Presentation**).

Jeremy Klotz, Vijay Rengarajan, and Aswin C. Sankaranarayanan, “Fine-Grain Prediction of Strawberry Freshness using Subsurface Scattering,” ICCV Workshop on Large-Scale Fine-Grained Food Analysis (LargeFineFoodAI), 2021.

TEACHING

Teaching Assistant, *First Principles in Computer Vision*

Fall 2022, Fall 2023, Fall 2024

Teaching Assistant, *Computational Imaging*

Spring 2024, Spring 2025, Spring 2026

AWARDS

Andrew P. Kosoresow Memorial Award for Excellence in Teaching and Service

2026

Best Paper Award

ECCV 2024

NDSEG Fellow

2023

University Honors, *Carnegie Mellon University*

2021

Eagle Scout

2017

EXPERIENCE

Metron

Summer 2021

Research Intern

- Designed stochastic algorithms to synthesize synthetic aperture sonar images for buried object detection.

PokerCam: ECE Capstone Project

Spring 2021

- Collaborated with two other students to design, implement, and test a portable card shoe that images and classifies playing cards as they are dealt.

LEADERSHIP

Carnegie Mellon University Emergency Medical Service (CMU EMS)

2018 - 2022

Captain, Supervisor

2021 - 2022

- Represented CMU EMS with external stakeholders, including the Carnegie Mellon Police Department, City of Pittsburgh EMS, and university decision-makers to facilitate effective partnerships and maintain the agency’s response to the COVID-19 pandemic.

- Oversaw agency medical operations in cooperation with the medical director to ensure consistent medical care and lead quality assurance.
- Managed all aspects of a five-person crew during 24-hour shifts, including medical care, training, and debriefing.
- Volunteered over 3000 hours on-duty responding to medical emergencies.