

# BENJAMIN ATTAL

benattal.github.io

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## EDUCATION

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**Carnegie Mellon Robotics Institute** *September 2019 - May 2025 (Expected)*  
Ph.D. in Robotics GPA : 4.0

**Brown University** *September 2014 - May 2019*  
B.S. in Applied Math and Computer Science, M.S. in Applied Math GPA (within major): 3.9

## RELEVANT WORK EXPERIENCE

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**Google Research (w/ Pratul Srinivasan)** Summer 2023  
*PhD Student Researcher*

**Facebook Computational Photography (w/ Changil Kim)** Summer 2021, 2022  
*PhD Student Research Intern*

**CMU Light Transport Lab (w/ Matt O'Toole)** Fall 2019 - Present  
*PhD Student*

**Brown Visual Computing Lab (w/ James Tompkin)** Fall 2018 - Fall 2019  
*Student Researcher*

**Light** Fall 2018 - Spring 2019  
*Student Research Intern*

## AWARDS

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**Uber Fellowship** 2021

**Meta Fellowship** 2023  
*AR/VR Computer Graphics*

## SELECTED PUBLICATIONS

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*Flash Cache: Reducing Bias in Radiance Cache Based Inverse Rendering.*

**Benjamin Attal**, Dor Verbin, Ben Mildenhall, Peter Hedman, Jon Barron, Matt O'Toole, Pratul Srinivasan.

ECCV 2024 (Oral)

*Flowed Time of Flight Radiance Fields.*

Mikhail Okunev\*, Marc Mapeke\*, **Benjamin Attal**, Christian Richardt, Matt O'Toole, James Tompkin.

ECCV 2024

*Neural Fields for Structured Lighting.*

Aarushi Shandilya, **Benjamin Attal**, Christian Richardt, James Tompkin, Matt O'Toole.

ICCV 2023

*HyperReel: High-Fidelity 6-DoF Video with Ray-Conditioned Sampling.*

**Benjamin Attal**, Jia-Bin Huang, Christian Richardt, Michael Zollhöfer, Johannes Kopf, Matthew O'Toole, Changil Kim.

CVPR 2023 (Highlight)

*Learning Neural Light Fields with Ray-Space Embedding Networks.*

**Benjamin Attal**, Jia-Bin Huang, Michael Zollhöfer, Johannes Kopf, Changil Kim.  
CVPR 2022

*Towards Mixed-State Coded Diffraction Imaging.*

**Benjamin Attal**, Matt O’Toole.

IEEE Transactions on Pattern Analysis and Machine Intelligence 2022.

*TöRF: Time-of-Flight Radiance Fields for Dynamic Scene View Synthesis.*

**Benjamin Attal**, Eliot Laidlaw, Aaron Gokaslan, Changil Kim, Christian Richardt, James Tompkin, Matt O’Toole.

NeurIPS 2021

*MatryODShka: Real-time 6DoF Video View Synthesis using Multi-Sphere Images.*

**Benjamin Attal**, Selena Ling, Aaron Gokaslan, Christian Richardt, James Tompkin.

ECCV 2020 (Oral)

## TALKS

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**Towards Mixed-State Coded Diffraction Imaging** Summer 2022

ICCP 2022 (Oral)

**Learning Neural Light Fields with Ray-Space Embedding Networks** Spring 2022

Google (Invited)

**Real-time 6DoF Video View Synthesis using Multi-Sphere Images** Summer 2020

ECCV 2020 (Oral)

## SERVICE

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### Reviewer

- SIGGRAPH
- CVPR
- NeurIPS
- ICCV, ECCV
- ACM Transactions on Graphics
- Computer Graphics Forum

## TEACHING

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### Teaching Assistant

- Computer Vision (CMU 16385)
- Learning for 3D Vision (CMU 16889)
- Computer Graphics (Brown University CSCI 1230)
- 2D Game Engine Development (Brown University CSCI 1950N)

### Head Teaching Assistant

- 3D Game Engine Development (Brown University CSCI 1950U)