

Brevin Tilmon

[Personal Website](#) / [GitHub](#) / [Google Scholar](#) / [Email](#) / (Cell) 812-568-3344

Education

University of Florida Ph.D. Electrical and Computer Engineering	5/2019 - 12/2023
Murray State University B.S. Electrical Engineering, 3.8/4.0	8/2015 - 5/2019

Experience

Snap Inc. Research Intern, Computational Imaging Team	5/2022 - 11/2022
Meta Research Intern, Reality Labs	8/2021 - 12/2021
NASA Ames Research Center Research Intern, Intelligent Robotics Group	5/2021 - 8/2021
University of Florida Graduate Research Assistant, Florida Optics and Computational Sensor Lab	5/2019 - Present

Publications

(Additional publications and patents available at [Google Scholar](#))

- B. Tilmon, Z. Sun, S. J. Koppal, Y. Wu, G. Evangelidis, R. Zharredine, G. Krishnan, S. Ma, and J. Wang. "Energy-Efficient Adaptive 3D Sensing". **CVPR**, 2023. [Website](#).
- B. Tilmon and S. J. Koppal. "SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing". **ICCV**, 2021. [Website](#).
- B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal. "Fast Foveating Cameras for Dense Adaptive Resolution". **PAMI**, 2021. [Website](#).
- B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal. "FoveaCam: A MEMS Mirror-Enabled Foveating Camera". **ICCP**, 2020. [Website](#).
- F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti and S. J. Koppal. "Towards a MEMS-based Adaptive LIDAR". **3DV**, 2020. [Website](#).
- K. Henderson, X. Liu, J. Folden, B. Tilmon, S. Jayasuriya and S. J. Koppal. "Design and Calibration of a Fast Flying-Dot Projector for Dynamic Light Transport Acquisition". **Transactions on Computational Imaging**, 2020. [Website](#).

Open Source Software

holoCu [\[GitHub\]](#)
CUDA implementation/simulator of the holographic projector developed for my CVPR 2023 paper "Energy-Efficient Adaptive 3D Sensing".

illumiGrad [\[GitHub\]](#)
PyTorch abstracted local bundle adjustment for RGBD cameras.

Skills

Computer Vision, Computational Imaging/Photography, Machine Learning, Python, C++, CUDA, PyTorch