

# Brevin Tilmon

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## Research Interests

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I am interested in computational photography, computer vision and machine learning. My research involves developing adaptive computational imaging systems.

## Education

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PhD, Electrical Engineering, University of Florida	Present
BSE, Engineering Physics, Murray State University	2019

## Work Experience

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<b>Facebook</b> , Facebook Reality Labs, Redmond, WA Research Intern Depth sensing for augmented/virtual reality.	Fall 2021
<b>University of Florida</b> , FOCUS Lab, Gainesville, FL Graduate Research Assistant to Dr. Sanjeev J. Koppal Developing adaptive computational imaging systems and machine learning algorithms.	Present

## Publications

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1. **SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing**  
B. Tilmon and S. J. Koppal  
arXiv 2021
2. **FoveaCam: A MEMS Mirror-Enabled Foveating Camera**  
B. Tilmon, E. Jain, S. Ferrari, S. J. Koppal.  
International Conference on Computational Photography (ICCP 2020)
3. **Towards a MEMS-based Adaptive LIDAR**  
F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti, S. J. Koppal.  
International Conference on 3D Vision (3DV 2020)
4. **Design and Calibration of a Fast Flying-Dot Projector for Dynamic Light Transport Acquisition**  
K. Henderson, X. Liu, J. Folden, B. Tilmon, S. Jayasuriya, S.J. Koppal.  
IEEE Transactions on Computational Imaging (TCI 2020)
5. **Novel Approach of Wavelet Analysis for Nonlinear Ultrasonic Measurements and Fatigue Assessment of Jet Engine Components**  
G. Bunget, B. Tilmon, A. Yee, D. Stewart, J. Rogers, et al.  
American Institute of Physics 2018

## Awards

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NSF GRFP Honorable Mention	2020
Graduate School Preeminence Award, University of Florida	2019
Kirkland Fellowship, University of Florida	2019
Jesse & Deborah Jones Scholarship, Murray State University	2015
Housing Scholarship, Murray State University	2015

## Skills

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Programming: C/C++, Python, MATLAB  
Sensors and Robotics: Depth/RGB Cameras, Embedded Systems, Optics Bench