

Erik T. Wijmans

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Education

- **Georgia Institute of Technology** **Atlanta, GA**
Doctor of Philosophy, Computer Science, Computer Vision/Artificial Intelligence 1st Year
 - **Washington University in St. Louis** **St. Louis, MO**
Bachelor of Science, Computer Engineering, Summa Cum Laude May 2017
 - **Juniata College** **Huntingdon, PA**
Bachelor of Science, Engineering Physics, Magna Cum Laude May 2017
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Core Interest

I am very interested in tackling challenging math and engineering problems from a computer science perspective such as the computer vision, machine learning, and network security problems I have worked on.

Core Technical Skills

Languages: C/C++, Python
Libraries: PyTorch, OpenCV, Point Cloud Library

Experience

- **Georgia Institute of Technology** **Atlanta, GA**
Embodied QA 3D 11/2017 – Present
 - Working with Prof. Batra, Prof. Parikh, and, Prof. Essa to utilize RGB-D data for Embodied QA
 - Utilizing the PointNet++ deep neural network architecture
 - Extending the MINOS simulator to utilize the RGB-D sensor data from the Matterport3D dataset.
 - **Washington University in St. Louis** **St. Louis, MO**
Building Scale RGBD Alignment 09/2015 – 12/2016
 - Paper in CVPR17, Project site: cvpr17.wijmans.xyz
 - Worked with Prof. Yasutaka Furukawa to design a new method for 3D point cloud rectification
 - Developed an algorithm that extracts floor plan information and dominant directions from a 3D point cloud
 - Aligned with the ground truth floor plan by comparing semi-binary images and generated candidate placements
 - Selected a final placement for each point cloud by examining how consistent placements are with one another
 - **Lehigh University** **Bethlehem, PA**
NSF REU Fellow, Research Experience for Undergraduates Program Summer 2016
 - Paper entitled **(Cross-)Browser Fingerprinting via OS and Hardware Level Features** published in NDSS17
 - Worked with Prof. Yinzhi Cao to develop a new way to uniquely identify computers (machine fingerprinting)
 - Created a website that collects data and sends it to a server for analysis
 - Created tools to analyze data and calculate the entropy of machine fingerprints
 - **Washington University in St. Louis** **St. Louis, MO**
NSF REU Fellow, Research Experience for Undergraduates Program Summer 2015
 - Worked with Prof. Yasutaka Furukawa to develop an Android® application that guides the user through the process of capturing a 360° panorama while also logging IMU information
 - Created a panorama stitching algorithm that utilizes the IMU information
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Honors and Awards

- **Washington University in St. Louis Outstanding Junior Award**
- **Scholarships and Fellowships:**
 - Harold P. Brown Engineering Fellowship
 - Calvert Ellis Scholarship
 - William E. and Florence Schmidt Memorial Scholarship