

# Erik Wijmans

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## Education

- Aug 2017– Present **Ph.D. in Computer Science (3rd year student)**, *Georgia Institute of Technology*, Atlanta, GA, Advisors: Irfan Essa and Dhruv Batra.
- May 2017 **Bachelor of Science, Computer Engineering, Summa Cum Laude**, *Washington University in St. Louis*, St. Louis, MO.
- May 2017 **Bachelor of Science, Engineering Physics, Magna Cum Laude**, *Juniata College*, Huntingdon, PA.

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## Publications

1. **E. Wijmans**, A. Kadian, A. Morcos, S. Lee, I. Essa, D. Parikh, M. Savva, and D. Batra. Decentralized Distributed PPO: Solving PointGoal Navigation. In *arXiv:1911.00357*, 2019.
2. M. Savva<sup>†</sup>, A. Kadian<sup>†</sup>, O. Maksymets<sup>†</sup>, Y. Zhao, **E. Wijmans**, B. Jain, J. Straub, J. Liu, V. Koltun, J. Malik, D. Parikh, and D. Batra. Habitat: A Platform for Embodied AI Research. In *International Conference on Computer Vision (ICCV)*, 2019.  
Oral Talk, top 187 of 4303 submissions = top-4.3%  
Best Paper Award Nominee, top 11 of 4303 submissions = top-0.25%
3. **E. Wijmans**<sup>†</sup>, S. Datta<sup>†</sup>, O. Maksymets<sup>†</sup>, A. Das, G. Gkioxari, S. Lee, I. Essa, D. Parikh, and D. Batra. Embodied Question Answering in Photorealistic Environments with Point Cloud Perception. In *Computer Vision and Pattern Recognition (CVPR)*, 2019.  
Oral Talk, top 288 of 5160 submissions = top-5.5% .
4. J. Straub, T. Whelan, L. Ma, Y. Chen, **E. Wijmans**, S. Green, J. J. Engel, R. Mur-Artal, C. Ren, S. Verma, A. Clarkson, M. Yan, B. Budge, Y. Yan, X. Pan, J. Yon, Y. Zou, K. Leon, N. Carter, J. Briales, T. Gillingham, E. Mueggler, L. Pesqueira, M. Savva, D. Batra, H. M. Strasdat, R. D. Nardi, M. Goesele, S. Lovegrove, and R. Newcombe. The Replica Dataset: A Digital Replica of Indoor Spaces. In *arXiv:1906.05797*, 2019.
5. **E. Wijmans** and Y. Furukawa. Exploiting 2D Floorplan for Building-Scale Panorama RGB-D Alignment. In *Computer Vision and Pattern Recognition (CVPR)*, 2017.
6. Y. Cao, S. Li, and **E. Wijmans**. (Cross-)Browser Fingerprinting via OS and Hardware Level Features. In *Network and Distributed System Security Symposium (NDSS)*, 2017.

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## Honors and Awards

- Best Paper Award Nominee at the International Conference on Computer Vision (ICCV), 2019. Top 11 of 4303 submissions = top-0.25%
- 2019-20 Scholar Award Fellowship from the Achievement Rewards for College Scientists (ARCS) Foundation (\$8,500)
- Washington University in St. Louis Department of Computer Science and Engineering Outstanding Junior Award (3 awards for ~100 eligible juniors)
- Harold P. Brown Engineering Fellowship (2 awards for ~100 applicants)

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## Internships

- May–Aug. **Research Intern**, *Facebook AI Research*, Menlo Park, CA.  
2019 With Manolis Savva and Dhruv Batra
- Studying what agents learn when they solve a large-scale AI task
- May–Aug. **Research Intern**, *Facebook Reality Labs*, Redmond, WA.  
2018 With Julian Straub (FRL) and Dhruv Batra (FAIR)
- Worked on the first steps towards the Replica Dataset and AI Habitat.
- May–Aug. **NSF REU Fellow**, *Lehigh University*, Bethlehem, PA.  
2016 Mentored by Yinzhi Cao (now at Johns Hopkins University).
- May–Aug. **NSF REU Fellow**, *Washington University in St. Louis*, St. Louis, MO.  
2015 Mentored by Yasutaka Furukawa (now at Simon Fraser University).

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## Posters and Invited Talks

- 2019 **Poster and Invited Talk**, *CVPR 2019*, Long Beach, CA.  
For Embodied Question Answering in Photorealistic Environments with Point Cloud Perception
- 2019 **Invited Talk**, *Habitat Embodied Agents Workshop, 2019*, Long Beach, CA.  
About my top entry to the Habitat-Challenge leader-board
- 2017 **Poster**, *CVPR 2017*, Honolulu, Hawaii.  
For Exploiting 2D Floorplan for Building-scale Panorama RGBD Alignment

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## Professional Activities

- Reviewer for NeurIPS2019, CVPR2020
- Organizer for Visually Grounded Interaction and Language Workshop, 2018 and 2019
- Organizer for Habitat: Embodied AI Challenge & Workshop, 2019 and 2020

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## Teaching

- Teaching Assistant, Deep Learning, Fall 2018
- Teaching Assistant, Machine Learning, Fall 2017
- Teaching Assistant, Introduction to Systems Software, Spring 2016 – Spring 2017