

# Meera S. Hahn

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## RESEARCH INTERESTS

I am interested in studying perceptual embodied AI using deep networks as well as exploring how to harness linguistic information to assist in visual learning tasks.

## EDUCATION

**Georgia Institute of Technology** (2016 - present)

*PhD*, Computer Science  
School of Interactive Computing  
Advisor: Dr. James M. Rehg

**Emory University** (2012 - 2016)

*Bachelor of Science*, Computer Science  
Major GPA : 3.9/4 Advisor: Dr. Jinho Choi

## PUBLICATIONS

**No RL, No Simulation: Learning to Navigate without Navigating**

*Meera Hahn*, Devendra Chaplot, Mustafa Mukadam, James Rehg, Shubham Tulsiani, Abhinav Gupta. *NeurIPS 2021*

**Where Are You? Localization from Embodied Dialog**

*Meera Hahn*, Jacob Krantz, Dhruv Batra, Devi Parikh, James Rehg, Stefan Lee, and Peter Anderson. *EMNLP 2020*

**Tripping through time: Efficient Localization of Activities in Videos**

*Meera Hahn*, Asim Kadav, James M. Rehg, and Hans Peter Graf. *BMVC 2020*

**Action2Vec: A Crossmodal Embedding Approach to Action Learning**

*Meera Hahn*, Andrew Silva, and James M. Rehg. *CVPR-W 2018*

**Localizing and Aligning Fine-Grained Actions to Sparse Instructions**

*Meera Hahn*, Nataniel Ruiz, Jean-Baptiste Alayrac, Ivan Laptev, and James M. Rehg. *CVPR-W 2018*

**Situated Bayesian Reasoning Framework for Robots Operating in Diverse Everyday Environments**

Sonia Chernova, Vivian Chu, Angel Daruna, Haley Garrison, *Meera Hahn*, Priyanka Khante, Weiyu Liu, and Andrea Thomaz. *ISRR 2017*

**Deep tracking: Visual tracking using deep convolutional networks**

*Meera Hahn*, Si Chen, and Afshin Dehghan. *Grace Hopper 2016*

**Advances in Methods & Evaluations for Distributional Semantic Models**

*Meera Hahn*, Jinho Choi. *Emory Thesis*

**ACADEMIC HONORS**

**Presidential PhD Fellowship** (2016 - 2020)  
*Georgia Institute of Technology*

**Highest Honors on Thesis** (2016)  
*Emory University*

**Emory Honors Program** (2016)  
*Emory University*  
 Program involves a written thesis, thesis defense, a GPA above 3.5 and graduate coursework

**Travel Grant Recipient** (2016)  
*Computing Research Association*

**Anita Borg Scholarship Recipient** (2016)  
*Travel grant to attend the Grace Hopper Celebration*

**Emory Honor List & Emory Merit List** (2016)  
*Travel grant to attend the Grace Hopper Celebration*

**INDUSTRY EXPERIENCE**

**Facebook Artificial Intelligence Research** (May 2020 - January 2021)  
*Research Internship*  
 Learning an embodied navigation agent.  
*Advisor:* Dr. Abhinav Gupta  
*Collaborators:* Shubham Tulsiani, Devendra Chaplot, Mustafa Mukadam

**Facebook Reality Labs** (May 2019 - December 2019)  
*Research Internship*  
 Learning a visually grounded memory assistant.  
*Advisors:* Dr. James Hillis, Dr. Dhruv Batra, Dr. Ruta Desai

**NEC Laboratories** (May 2018 - August 2018)  
*Research Internship.*  
 Temporal alignment of activities via language query.  
*Advisors:* Dr. Asim Kadav and Dr. Hans Peter Graf

**Amazon** (May 2016 - August 2016)  
*Research and Development Internship.*  
 Shipping material classification via point cloud images.  
*Advisors:* Dr. Marshall Tappen

**Amazon** (May 2015 - August 2015)  
*Software Development Engineer Intern.*  
 Developed and deployed an AB Testing framework.

**ACADEMIC EXPERIENCE**

**Computational Perceptual Laboratory of Georgia Tech**  
*Graduate Research Assistant.* (August 2016 - Present)

- Working at the intersection of language and vision with the goal of improving activity understanding.
- Part of a NIH funded project to monitor and track the progression of autism through behavioral imaging and wearable sensors.

*Advisor:* Dr. James M. Rehg

**Visual Intelligence Lab of Georgia Tech**  
*Graduate Research Assistant.* (August 2016 - Present)

- Working on language guided navigation in 3D environments.

*Advisors:* Dr. Dhruv Batra, Dr. Devi Parikh and Dr. Peter Anderson

**Emory NLP Research Lab** (Spring 2016)  
*Research Assistant and Thesis Research.*

- Worked on a novel approach to word embedding that accounted for sentence dependency structure. Used distributional semantics, dependency tree parsing and neural networks. This research part of Honor's Program senior thesis.
- Worked on the Emory NLP toolkit's Named Entity Recognition system.

*Advisor:* Dr. Jinho Choi

**University of Central Florida** (May 2015 - August 2015)  
*Research Experience Undergraduate Fellow.*

- Deep convolutional networks for object tracking.

*Advisors:* Dr. Mubarak Shah and Dr. Afshin Deghan

**TEACHING EXPERIENCE** **Computer Vision - Head TA** (Fall 2019)  
*Georgia Institute of Technology*

**ML w/ Limited Supervision - Graduate TA** (Spring 2020) *Georgia Institute of Technology*

**COURSEWORK** Computer Vision, Advanced Computer Vision, Computer Vision and Language, Natural Language Processing, Machine Learning, Computability & Complexity & Algorithms, Human Robot Interaction, Statistical Techniques for Robotics, Artificial Intelligence

**COMMUNITY ENGAGEMENT** **CVPR Reviewer** (2017 – Present)  
**ECCV/ICCV Reviewer** (2018 – Present)

**Women in Computing at Emory** (2015 - 2016 ) *President and Founder*  
This club is a subsidiary of HACK Emory and gives seminars throughout the year on opportunities for Women In Computing, also serves as a place for women in tech at Emory to network.