

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)
	<i>Georgia Institute of Technology</i>	
	Highest Honors on Thesis	(2016)
	<i>Emory University</i>	
	Highest Honors on Thesis	(2016)
	<i>Emory University</i>	
	Emory Honors Program	(2016)
	<i>Emory University</i>	
	Program involves a written thesis, thesis defense, a GPA above 3.5 and graduate coursework	
	Travel Grant Recipient	(2016)
	<i>Computing Research Association</i>	
	Anita Borg Scholarship Recipient	(2016)
	<i>Travel grant to attend the Grace Hopper Celebration</i>	
	Emory Honor List & Emory Merit List	(2016)
	<i>Travel grant to attend the Grace Hopper Celebration</i>	

INDUSTRY EXPERIENCE	Facebook Artificial Intelligence Research	(May 2020 - January 2021)
	<i>Research Internship</i>	
	Learning an embodied navigation agent.	
	<i>Advisor:</i> Dr. Abhinav Gupta	
	<i>Collaborators:</i> Shubham Tulsiani, Devendra Chaplot, Mustafa Mukadam	
	Facebook Reality Labs	(May 2019 - December 2019)
	<i>Research Internship</i>	
	Learning a visually grounded memory assistant. <i>Advisors:</i> Dr. James Hillis, Dr. Dhruv Batra, Dr. Ruta Desai	
	NEC Laboratories	(May 2018 - August 2018)
	<i>Research Internship.</i> Temporal alignment of activities via language query. <i>Advisors:</i> Dr. Asim Kadav and Dr. Hans Peter Graf	
Amazon	(May 2016 - August 2016)	
<i>Research and Development Internship.</i>		
Shipping material classification via point cloud images.		
<i>Advisors:</i> Dr. Marshall Tappen		
Amazon	(May 2015 - August 2015)	
<i>Software Development Engineer Intern.</i>		
Developed and deployed an AB Testing framework.		

ACADEMIC EXPERIENCE	Computational Perceptual Laboratory of Georgia Tech	
	<i>Graduate Research Assistant.</i>	(August 2016 - Present)
	<ul style="list-style-type: none"> 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. 	
	<i>Advisor:</i> Dr. James M. Rehg	
	Visual Intelligence Lab of Georgia Tech	
	<i>Graduate Research Assistant.</i>	(August 2016 - Present)
	<ul style="list-style-type: none"> Working on language guided navigation in 3D environments. 	
	<i>Advisors:</i> 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 20202) *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.