

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, Shubham Tulsiani, Mustafa Mukadam, James Rehg, Abhinav Gupta. *In Submission*

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*

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

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 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.