Meera S. Hahn

meerahahn@google.com — www.meerahahn.net

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.

Employment

Google Research (2022 - Present)
Research Scientist

Education

Georgia Institute of Technology (2016 - 2022)
Ph.D. Computer Science
Thesis: "Language Guided Localization and Navigation"
Commitee: James M. Rehg (Advisor), Dhruv Batra, Diyi Yang, Peter Anderson, Abhinav Gupta

Emory University (2012 - 2016)
Bachelor of Science, Computer Science
Advisor: Dr. Jinho Choi

Publications

Which way is 'right'?: Uncovering Limitations of Vision-and-Language Navigation Models
Meera Hahn, James M. Rehg. *Under Submission to AAMAS 2023*

Transformer-based Localization from Embodied Dialog with Large-scale Pre-training
Meera Hahn, James M. Rehg. *AACL 2022*

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*

Learning a Visually Grounded Memory Assistant
Meera Hahn, Kevin Carlberg, Ruta Desai, and James Hillis. *Arxiv 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 Di-

verse 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*

Fellowships & Honors	**Presidential PhD Fellowship**	*(2016 - 2020)*

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

Internships

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 Lab Experience

Computational Perceptional Laboratory of Georgia Tech
Graduate Research Assistant. *(2016 - 2022)*

Advisor: Dr. James M. Rehg
- Intersection of language, vision and robotics.
- NIH funded project to monitor and track the progression of autism through behavioral imaging and wearables.

Visual Intelligence Lab of Georgia Tech
Graduate Research Assistant. *(2018 - 2022)*
Advisors: Dr. Dhruv Batra, Dr. Devi Parikh and Dr. Peter Anderson
- Language guided navigation in 3D environments.

Emory NLP Research Lab *(Spring 2016)*
Research Assistant and Thesis Research.
Advisor: Dr. Jinho Choi
- Novel approaches for distributional semantics.
- Emory NLP toolkit's Named Entity Recognition system.

University of Central Florida *(May 2015 - August 2015)*
Research Experience Undergraduate Fellow.
Advisors: Dr. Mubarak Shah and Dr. Afshin Deghan
- Deep convolutional networks for object tracking.

Teaching

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

ML w/ Limited Supervision - Graduate TA *(Spring 20202) Georgia Institute of Technology*

Professional Activities

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.

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