
CONTACT INFORMATION	School of Interactive Computing Georgia Tech, Atlanta, GA	steflee@gatech.edu
RESEARCH INTERESTS	Computer vision, natural language processing, Bayesian modeling, inference in probabilistic graphical models, deep learning, egocentric vision	
EDUCATION	Indiana University , Bloomington, IN Ph.D., Computer Science, August 2016 • Advisor: David Crandall M.S., Computer Science, May 2013 University of West Florida Pensacola, FL B.S., Computer Science, August 2011	
RESEARCH POSITIONS	Research Scientist II Machine Learning & Perception Group at Georgia Tech with Dhruv Batra	August 2017 to Present
	Bradley Postdoctoral Associate Machine Learning & Perception Group at Virginia Tech with Dhruv Batra	August 2016 to August 2017
	Research Assistant School of Informatics and Computing, at Indiana University with David Crandall	May 2012 to August 2016
	Visiting Research Assistant Machine Learning & Perception Group at Virginia Tech with Dhruv Batra	August 2015 to November 2015
	Visiting Research Assistant INRIA - WILLOW Project at L'cole Normale Superiure and UC Berkley with Josef Sivic and Alexei A. Efros.	May 2014 to August 2014
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"> 1. Abhishek Das*, Satwik Kottur*, Jos M.F. Moura, Stefan Lee, and Dhruv Batra. Learning Cooperative Visual Dialog Agents with Deep Reinforcement Learning. <i>IEEE International Conference on Computer Vision (ICCV)</i>, 2017. [Oral Paper]. 2. Satwik Kottur, Jos M.F. Moura, Stefan Lee, and Dhruv Batra. Natural Language Does Not Emerge 'Naturally' in Multi-Agent Dialog. <i>Conference on Empirical Methods in Natural Language Processing (EMNLP)</i>, 2017. [Best Short Paper]. 3. Aroma Mahendru*, Viraj Prabhu*, Akrit Mohapatra*, Dhruv Batra, and Stefan Lee. The Promise of Premise: Harnessing Question Premises in Visual Question Answering. <i>Conference on Empirical Methods in Natural Language Processing (EMNLP)</i>, 2017. 4. Viraj Prabhu, Prithvijit Chattopadhyay, Deshraj Yadav, Arjun Chandrasekaran, Abhishek Das, Stefan Lee, Dhruv Batra, and Devi Parikh. Evaluating Visual Dialog Agents via Cooperative Human-AI Games. <i>Proceedings of the Fifth AAAI Conference on Human Computation and Crowdsourcing (HCOMP)</i>, 2017. 	

5. Qing Sun, Stefan Lee, and Dhruv Batra. Bidirectional Beam Search: Forward-Backward Inference in Neural Sequence Models for Fill-in-the-Blank Image Captioning. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017.
6. Stefan Lee, Senthil Purushwalkam, Michael Cogswell, Viresh Ranjan, David J. Crandall, and Dhruv Batra. Stochastic Multiple Choice Learning for Training Diverse Deep Ensembles. *Neural Information Processing Systems (NIPS)*, 2016.
7. Sven Bambach, Stefan Lee, David Crandall, Chen Yu, Lending A Hand: Detecting Hands and Recognizing Activities in Complex Egocentric Interactions. *IEEE International Conference on Computer Vision (ICCV)*, 2015.
8. Stefan Lee, Nicolas Maisonneuve, David Crandall, Josef Sivic, Alexei A. Efros. Linking Past to Present: Discovering Style in Two Centuries of Architecture. *IEEE International Conference on Computational Photography (ICCP)*, 2015.
9. Stefan Lee, Haipeng Zhang, David Crandall. Predicting Geo-informative Attributes in Large-scale Image Collections using Convolutional Neural Networks. *IEEE Workshop on Applications of Computer Vision (WACV)*, 2015.
10. Stefan Lee, Sven Bambach, David Crandall, John Franchak, and Chen Yu. This Hand Is My Hand: A Probabilistic Approach to Hand Disambiguation in Egocentric Video. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Workshop on Egocentric Vision*, 2014. [**Best Paper Award**].
11. Stefan Lee, Jerome Mitchell, David Crandall, and Geoffery Fox. Estimating Bedrock and Surface Layer Boundaries And Confidence Intervals In Ice Sheet Radar Imagery Using MCMC. In *International Conference on Image Processing (ICIP)*, 2014.

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SUBMISSIONS

1. Stefan Lee, Senthil Purushwalkam, Michael Cogswell, David J. Crandall, Dhruv Batra. Why M Heads are Better than One: Training a Diverse Ensemble of Deep Networks. arXiv:1511.06314, 2015.
2. Ashwin K Vijayakumar, Michael Cogswell, Ramprasath R. Selvaraju, Qing Sun, Stefan Lee, David Crandall, Dhruv Batra. Diverse Beam Search: Decoding Diverse Solutions from Neural Sequence Models. arXiv:1610.02424, 2016.

BOOK CHAPTERS

1. David J. Crandall, Yunpeng Li, Stefan Lee, and Daniel P. Huttenlocher. Recognizing Land- marks in Large-Scale Social Image Collections. Large-Scale Visual Geo-Localization. Ed. Amir R. Zamir, Asaad Hakeem, Luc Van Gool, Mubarak Shah, Richard Szeliski. Springer, 2016.

EXTENDED
ABSTRACTS &
TECHNICAL
REPORTS

1. Sven Bambach, Stefan Lee, David Crandall, John Franchak, Chen Yu. Tracking Hands of Interacting People in Egocentric Video. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Workshop on Observing and Understanding Hands in Action*, 2015.
2. Stefan Lee and David Crandall. Learning to Identify Local Floral with Human Feedback. In *IEEE Conference on Computer Vision and Pattern Recognition, Workshop on Computer Vision and Human Computation*, 2014.

AWARDS

- Outstanding Reviewer (CVPR 2017) July 2017
- Bradley Postdoctoral Fellowship (Virginia Tech) August 2016
- HANDS Travel Award (CVPR) Spring 2016
- Doctoral Consortium Travel Award (ICCV) Fall 2015
- Dissertation Development Award (Indiana University) Spring 2015
- Heidelberg Laureate Forum Acceptance (HLF Foundation) April 2015

TEACHING EXPERIENCE	Instructor	Fall 2016
	ECE5424 - Introduction to Machine Learning Bradley Department of Electrical and Computer Engineering - Virginia Tech	
	Assistant Instructor	Spring 2015
	B659 - Image Processing and Recognition School of Informatics and Computing - Indiana University	
	Graduate Mentor	Fall 2013
	I399 - Research Methods for Informatics and Computing School of Informatics and Computing - Indiana University	
	Assistant Instructor	Fall 2011 - Spring 2013
	C211 - Introduction to Computer Science School of Informatics and Computing - Indiana University	
SERVICE	Regularly review or serve on the program committee for	
	<ul style="list-style-type: none"> • Computer Vision and Pattern Recognition (CVPR) • International Conference on Computer Vision (ICCV) • Neural Information Processing Systems (NIPS) • International Conference on Learning Representations (ICLR) • Social Network Analysis and Mining (Springer Journal) • Image and Vision Computing (Elsevier Journal) 	
	Other	
	<ul style="list-style-type: none"> • Co-Organizer of the Diversity Meets Deep Networks - Inference, Ensemble Learning, and Applications tutorial collocated with CVPR 2016 	