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|-------------------------|---|------------------------------|
| CONTACT INFORMATION     | Bradley Department of Electrical and Computer Engineering<br>Virginia Tech, Blacksburg, VA  | steflee@vt.edu               |
| RESEARCH INTERESTS      | Computer vision, Bayesian modeling, inference in probabilistic graphical models, deep learning, egocentric vision   |                              |
| EDUCATION               | <b>Indiana University</b> , Bloomington, IN<br>Ph.D., Computer Science, August 2016<br>• Advisor: David Crandall<br>M.S., Computer Science, May 2013<br><b>University of West Florida</b> Pensacola, FL<br>B.S., Computer Science, August 2011  |                              |
| RESEARCH POSITIONS      | <b>Bradley Postdoctoral Associate</b><br>Machine Learning & Perception Group<br>at Virginia Tech with Dhruv Batra   | August 2016 to Present       |
|                         | <b>Research Assistant</b><br>School of Informatics and Computing,<br>at Indiana University with David Crandall  | May 2012 to August 2016      |
|                         | <b>Visiting Research Assistant</b><br>Machine Learning & Perception Group<br>at Virginia Tech with Dhruv Batra  | August 2015 to November 2015 |
|                         | <b>Visiting Research Assistant</b><br>INRIA - WILLOW Project<br>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"> <li>1. Stefan Lee, Senthil Purushwalkam, Michael Cogswell, Viresh Ranjan, David J. Crandall, and Dhruv Batra. Stochastic Multiple Choice Learning for Training Diverse Deep Ensembles. <i>Neural Information Processing Systems (NIPS)</i>, 2016.</li> <li>2. Sven Bambach, Stefan Lee, David Crandall, Chen Yu, Lending A Hand: Detecting Hands and Recognizing Activities in Complex Egocentric Interactions. <i>IEEE International Conference on Computer Vision (ICCV)</i>, 2015.</li> <li>3. Stefan Lee, Nicolas Maisonneuve, David Crandall, Josef Sivic, Alexei A. Efros. Linking Past to Present: Discovering Style in Two Centuries of Architecture. <i>IEEE International Conference on Computational Photography (ICCP)</i>, 2015.</li> <li>4. Stefan Lee, Haipeng Zhang, David Crandall. Predicting Geo-informative Attributes in Large-scale Image Collections using Convolutional Neural Networks. <i>IEEE Workshop on Applications of Computer Vision (WACV)</i>, 2015.</li> <li>5. 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. <i>In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Workshop on Egocentric Vision</i>, 2014.</li> <li>6. 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. <i>In International Conference on Image Processing (ICIP)</i>, 2014.</li> </ol> |                              |

ARXIV  
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

- Heidelberg Laureate Forum Acceptance (HLF Foundation) April 2015
- Dissertation Development Award (Indiana University) Spring 2015
- Doctoral Consortium Travel Award (ICCV) Fall 2015
- HANDS Travel Award (CVPR) Spring 2016

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

- Reviewing
- Computer Vision and Pattern Recognition (CVPR)
  - International Conference on Learning Representations (ICLR)
  - Social Network Analysis and Mining
  - Image and Vision Computing
- Other
- Co-Organizer of the Diversity Meets Deep Networks - Inference, Ensemble Learning, and Applications tutorial collocated with CVPR 2016