

EDUCATION

- Georgia Tech** **Fall 2015 - Spring 2020 (expected)**
Ph.D., Computer Science (transferred from Virginia Tech with advisor in Spring 2017)
Advised by Dhruv Batra
- Virginia Tech** **March 2016**
M.S., Computer Science
Advised by Dhruv Batra
- Virginia Tech** **December 2013**
B.S., Computer Science, Honors Scholar
B.S., Mathematics, Honors Scholar

RESEARCH POSITIONS

- Graduate Research/Teaching Assistant** January 2017 - Present
Machine Learning and Perception Lab
at Georgia Institute of Technology with Dhruv Batra

PAST POSITIONS

- Research Intern** Summer 2016
Microsoft Research Cambridge
Research project supervised by Yoram Bachrach involving automated conversational agents
- Graduate Research Assistant** May 2014 - May 2016; August 2016 - December 2016
Machine Learning & Perception Group
at Virginia Tech with Dhruv Batra
- Research Intern** July 2015 to August 2015
Photokharma
Research and implement face recognition software supervised by Abner Guzmán-Rivera
- Intern** June 2012 - December 2012
IBM, Raleigh, NC
Intern for Data Analytics Team; Developed machine learning features and data visualizations

HONORS & AWARDS

- **Outstanding Reviewer Awards (Recognition from areas chairs for quality reviewing)**
 - IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2017, (top 1% of reviewers) 2019
 - Neural Information Processing Systems (NeurIPS) 2017 - 2019
 - International Conference on Machine Learning (ICML) (top 5% of reviewers) 2019
 - International Conference on Learning Representations (ICLR) 2019
- **Bradley Fellowship – Virginia Tech ECE** **Fall 2015**
Tuition + stipend for 3 years
- **Scholarships**
 - Pratt Engineering Scholarship, \$5000, 2009 - 2010
 - AFCEA NOVA Scholarship, \$4000
 - Gilbert L & Lucille C Seay Scholarship, \$2000, 2010 - 2011
 - Computer Science Resource Consortium Scholarship, \$1500, 2011 - 2012, 2013 - 2014

Pre-Prints

10. Michael Cogswell, Jiasen Lu, Stefan Lee, Devi Parikh, and Dhruv Batra. “Dialog without Dialog: Learning Image-Discriminative DialogPolicies from Single-Shot Question Answering Data”. In: (2019).
9. Michael Cogswell, Jiasen Lu, Stefan Lee, Devi Parikh, and Dhruv Batra. “Emergence of Compositional Language with Deep Generational Transmission”. In: *CoRR* abs/1904.09067 (2019).

Journals

8. Ramprasaath R. Selvaraju, Michael Cogswell, Abhishek Das, Ramakrishna Vedantam, Devi Parikh, and Dhruv Batra. “Grad-CAM: Visual Explanations from Deep Networks via Gradient-based Localization”. In: *International Journal of Computer Vision (IJCV)*. 2019.

Peer-Reviewed Conference Papers

7. Ashwin K Vijayakumar, Michael Cogswell, Ramprasaath R. Selvaraju, Qing Sun, Stefan Lee, David Crandall, and Dhruv Batra. “Diverse Beam Search: Decoding Diverse Solutions from Neural Sequence Models”. In: *Proceedings of the Association for the Advancement of Artificial Intelligence (AAAI)*. 2018.
6. Ramprasaath R. Selvaraju, Michael Cogswell, Abhishek Das, Ramakrishna Vedantam, Devi Parikh, and Dhruv Batra. “Grad-CAM: Visual Explanations from Deep Networks via Gradient-based Localization”. In: (2017).
5. Stefan Lee, Senthil Purushwalkam, Michael Cogswell, Viresh Ranjan, David Crandall, and Dhruv Batra. “Stochastic Multiple Choice Learning for Training Diverse Deep Ensembles”. In: *NIPS*. 2016. Similar to M Best Heads below.
4. Michael Cogswell, Faruk Ahmed, Ross Girshick, Larry Zitnick, and Dhruv Batra. “Reducing Overfitting in Deep Networks by Decorrelating Representations”. In: *Proceedings of the International Conference on Learning Representations (ICLR)* (2016).
3. Stephen H Edwards, Zalia Shams, Michael Cogswell, and Robert C Senkbeil. “Running students’ software tests against each others’ code: new life for an old gimmick”. In: *Proceedings of the 43rd ACM technical symposium on Computer Science Education*. ACM. 2012, pp. 221–226.

Technical Reports / Workshops

2. Michael Cogswell, Xiao Lin, Senthil Purushwalkam, and Dhruv Batra. “Combining the best of graphical models and convnets for semantic segmentation”. In: *arXiv preprint arXiv:1412.4313* (2014). An earlier version appeared at the CVPR 2014 Scene Understanding Workshop.
1. Stefan Lee, Senthil Purushwalkam, Michael Cogswell, David Crandall, and Dhruv Batra. “Why M Heads are Better than One: Training a Diverse Ensemble of Deep Networks”. In: *arXiv preprint arXiv:1511.06314* (2015).

SERVICE ---

- **Regularly review or serve on the program committee for**
 - Computer Vision and Pattern Recognition (CVPR) 2015 - 2019
 - European Conference on Computer Vision (ECCV) 2014, 2016
 - International Conference on Computer Vision (ICCV) 2015, 2017, 2019
 - Neural Information Processing Systems (NIPS) 2017 - 2019
 - International Conference on Learning Representations (ICLR) 2017 - 2020
 - International Conference on Machine Learning (ICML) 2019
 - IEEE Transactions on Multimedia 2019