

# Judy Hoffman

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## CONTACT INFORMATION

Assistant Professor  
College of Computing  
Georgia Institute of Technology

*E-mail:* judy@gatech.edu  
*Website:* <https://www.cc.gatech.edu/~judy/>

## RESEARCH INTERESTS

My research lies at the intersection of computer vision and machine learning. I develop learning algorithms which facilitate the transfer of information through unsupervised and semi-supervised model adaptation and generalization. My work reuses and shares information across visual environments and tasks, enabling learning systems to tackle real-world variation and scale while minimizing human supervision.

## APPOINTMENTS

**Georgia Tech** Atlanta, GA Since August 2019  
*Assistant Professor, College of Computing*

**Facebook AI Research** Menlo Park, CA September 2018 - July 2019  
*Visiting Research Scientist*

**University of California, Berkeley** Berkeley, CA June 2017 - August 2018  
*Postdoctoral Researcher with Trevor Darrell and Alyosha Efros*

**Stanford University** Palo Alto, CA August 2016 - June 2017  
*Postdoctoral Researcher with Fei-Fei Li*

**Google Research:** Machine Perception Team Mountain View, CA  
*Software Engineering Intern, PhD* May 15, 2012 - August 10, 2012

## HONORS AND AWARDS

**NSF CAREER Award** *Vision Systems for an Evolving World* 2022

**Google Research Scholar Award** 2022

**Best Paper Award** NeurIPS Workshop on Vision Transformers Theory and Applications 2022

**Best Paper Award** ECCV Workshop on Computational Aspects of Deep Learning 2022

**Samsung AI Researcher of the Year** Awarded to 5 researchers worldwide 2021

**Diversity and Inclusion Fellow** Georgia Tech 2021-2022

**Female Leader in CV** Awarded by NVIDIA 2020

**ECCV Outstanding Reviewer Award** 2020

**AI2000 Most Influential Scholar Honorable Mention for ML** Awarded by AiMiner 2020

**“Thank-a-Teacher” Award**, Georgia Tech 2019,2020

**Best Paper Runner-up** Adversarial Robustness in the Real World (AROW) at ECCV 2020

**NeurIPS Top 30% Reviewers** 2018

**Rising Stars in EECS** Fall 2015

**National Science Foundation Graduate Research Fellowship** 2012-2015

**Best Paper Award** Web-scale Vision and Social Media Workshop at ECCV 2012

**Rosetta Stone Ltd Grace Hopper Scholarship** August 2012

**Best Student Paper** Domain Adaptation workshop at NeurIPS 2011

**Rosalie M. Stern Fellowship** August 2010 - May 2011

**Arthur M. Hopkin Award** May 2010

**SRC Undergraduate Research Scholarship** August 2009 - May 2010

**Intel Undergraduate Research Scholarship** March 2008 - August 2009

**Eta Kappa Nu, Member and Officer** December 2007 - Spring 2010

**Rose Hills Engineering Scholarship**  
**Edward Frank Kraft Award**

August 2007 - May 2008  
January 2007

EDUCATION

**University of California, Berkeley,**

August 2010 - August 2016

PhD, Electrical Engineering and Computer Science  
*Advised by Trevor Darrell*

**University of California, Berkeley**

August 2006 - May 2010

Bachelor of Science, Electrical Engineering and Computer Science Honors Program  
Graduated with Department Honors  
*Advised by Ken Goldberg*

BOOK CHAPTERS

- [1] **Judy Hoffman**, Eric Tzeng, Trevor Darrell, Kate Saenko. “Simultaneous Transfer Across Domains and Tasks” In *Domain Adaptation in Computer Vision Applications*, Springer, 173-187, 2017.

JOURNAL  
PUBLICATIONS

- [2] Ningshan Zhang, Mehryar Mohri, **Judy Hoffman**. “Multiple-Source Adaptation Theory and Algorithms”, *Annals of Mathematics and Artificial Intelligence*, 2021.
- [3] Eric Tzeng, Coline Devin, **Judy Hoffman**, Chelsea Finn, Pieter Abbeel, Sergey Levine, Kate Saenko, Trevor Darrell. “Adapting deep visuomotor representations with weak pairwise constraints”, *Algorithmic Foundations of Robotics XII*, 2020.
- [4] **Judy Hoffman**, Deepak Pathak, Eric Tzeng, Jonathan Long, Sergio Guadarrama, Trevor Darrell, and Kate Saenko. “Large Scale Visual Recognition through Adaptation using Joint Representation and Multiple Instance Learning”, *Journal of Machine Learning Research (JMLR), Special Issue on Multi Task Learning*, 2016.
- [5] **Judy Hoffman**, Erik Rodner, Jeff Donahue, Brian Kulis, and Kate Saenko. “Asymmetric and Category Invariant Feature Transformations for Domain Adaptation”, *International Journal of Computer Vision (IJCV) Special Issue on Domain Adaptation*, 2014.

CONFERENCE  
PUBLICATIONS

- [6] Chaitanya Ryali\*, Yuan-Ting Hu\*, Daniel Bolya\*, Chen Wei, Haoqi Fan, Po-Yao Huang, Vaibhav Aggarwal, Arkabandhu Chowdhury, Omid Poursaeed, **Judy Hoffman**, Jitendra Malik, Yanghao Li, Christoph Feichtenhofer “Simple MViT: A Hierarchical Vision Transformer without the Bells-and-Whistles”, *International Conference on Machine Learning (ICML)*, 2023. [Oral Presentation](#)
- [7] Daniel Bolya, Cheng-Yang Fu, Xiaoliang Dai, Peizhao Zhang, Christoph Fleichtenhofer, **Judy Hoffman**. “Token Merging: Your ViT But Faster”, *International Conference on Learning Representations (ICLR)*, 2023. [Notable Top 5%](#)
- [8] Arun Reddy, Ketul Shah, William Paul, Rohita Mocharla, **Judy Hoffman**, Kapil Katyal, Dinesh Manocha, Celso de Melo, Rama Chellappa. “Synthetic-to-Real Domain Adaptation for Action Recognition: A Dataset and Baseline Performances”, *International Conference on Robotics and Automation (ICRA)*, 2023.
- [9] Kapil Katyal, Rama R. Chellappa, Ketul Shah, Arun Reddy, **Judy Hoffman**, William Paul, Rohita Mocharla, David A. Handelman, Celso De Melo. “Leveraging synthetic data for robust gesture recognition”, *SPIE*, 2023.
- [10] Chia-Wen Kuo, Chih-Yao Ma, **Judy Hoffman**, Zsolt Kira. “Structure-Encoding Auxiliary Tasks for Improved Visual Representation in Vision-and-Language Navigation”, *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2023.

- [11] Viraj Uday Prabhu\*, Sriram Yenamandra\*, Aaditya Singh, **Judy Hoffman**. “Adapting Self-Supervised Vision Transformers by Probing Attention-Conditioned Masking Consistency”, *Neural Information Processing Systems (NeurIPS)*, 2022. (*\*Equal Contribution*)
- [12] Arjun Majumdar, Gunjan Aggarwal, Bhavika Suresh Devnani, **Judy Hoffman**, Dhruv Batra. “ZSON: Zero-Shot Object-Goal Navigation using Multimodal Goal Embeddings”, *Neural Information Processing Systems (NeurIPS)*, 2022.
- [13] Seongmin Lee, Zijie J. Wang, **Judy Hoffman**, Duen Horng (Polo) Chau. “VISCUIT: Visual Auditor for Bias in CNN Image Classifier”. *Computer Vision and Pattern Recognition (CVPR) Demo Track*, 2022
- [14] Sruthi Sudhakar, Viraj Prabhu, Arvind Krishnakumar, **Judy Hoffman**. “Mitigating Bias in Visual Transformers via Targeted Alignment”, *British Machine Vision Conference (BMVC)*, 2021.
- [15] Arvind Krishnakumar, Viraj Prabhu, Sruthi Sudhakar, **Judy Hoffman**. “UDIS: Unsupervised Discovery of Bias in Deep Visual Recognition Models”, *British Machine Vision Conference (BMVC)*, 2021.
- [16] Daniel Bolya\*, Rohit Mittapali\*, **Judy Hoffman**. “Scalable Diverse Model Selection for Accessible Transfer Learning”, *Neural Information Processing Systems (NeurIPS)*, 2021.
- [17] Viraj Prabhu, Shivam Khare, Deeksha Karthik, **Judy Hoffman**. “Selective Entropy Optimization via Committee Consistency for Unsupervised Domain Adaptation.” *International Conference in Computer Vision (ICCV)*, 2021.
- [18] Prithvijit Chattopadhyay, **Judy Hoffman**, Roozbeh Mottaghi, Ani Kembhavi. “RobustNav: Towards Benchmarking Robustness in Embodied Navigation.” *International Conference in Computer Vision (ICCV)*, 2021. ([Oral Presentation](#))
- [19] Viraj Prabhu, Arjun Chandrasekaran, Kate Saenko, **Judy Hoffman**. “Active Domain Adaptation via Clustering Uncertainty-weighted Embeddings.” *International Conference in Computer Vision (ICCV)*, 2021.
- [20] Baifeng Shi, Qi Dai, **Judy Hoffman**, Kate Saenko, Trevor Darrell, Huijuan Xu. “Temporal Action Detection with Multi-level Supervision.” *International Conference in Computer Vision (ICCV)*, 2021.
- [21] Or Litany, Ari Morcos, Srinath Sridhar, Leonidas Guibas, **Judy Hoffman**. “Representation Learning Through Latent Canonicalization.” *IEEE Winter Conference on Applications in Computer Vision (WACV)*, 2021.
- [22] Baifeng Shi, **Judy Hoffman**, Kate Saenko, Trevor Darrell, Huijuan Xu. “Auxiliary Task Reweighting for Minimum-data Learning”. *Neural Information Processing Systems (NeurIPS)*, 2020.
- [23] Samyak Datta, Oleksandr Maksymets, **Judy Hoffman**, Stefan Lee, Dhruv Batra, Devi Parikh. “Integrating Egocentric Localization for More Realistic Point-Goal Navigation Agents”, *Conference on Robot Learning (CoRL)*, 2020.
- [24] Daniel Bolya, Sean Foley, James Hays, **Judy Hoffman**. “TIDE: A General Toolbox for Identifying Object Detection Errors”, *European Conference in Computer Vision (ECCV)*, 2020. ([Spotlight Presentation](#))
- [25] Prithvijit Chattopadhyay, Yogesh Balaji, **Judy Hoffman**. “Learning to Balance Specificity and Invariance for In and Out of Domain Generalization”, *European Conference in Computer Vision (ECCV)*, 2020.
- [26] Harish Haresamudram, Apoorva Beedu, Varun Agrawal, Patrick L Grady, Irfan Essa, **Judy Hoffman**, Thomas Ploetz. “Masked Reconstruction based Self-Supervision for Human Activity Recognition”, *Proceedings of the International Symposium on Wearable Computers (ISWC)*, 2020.

- [27] **Judy Hoffman**, Daniel A. Roberts, Sho Yaida. “Robust Learning with Jacobian Regularization” *Conference on the Mathematical Theory of Deep Learning (DeepMath)*, 2019.
- [28] Daniel Gordon, Abhishek Kadian, Devi Parikh, **Judy Hoffman**, Dhruv Batra. “SplitNet: Sim2Sim and Task2Task Transfer for Embodied Visual Navigation”, *International Conference in Computer Vision (ICCV)*, 2019.
- [29] **Judy Hoffman**, Mehryar Mohri, Ningshan Zhang. “Algorithms and Theory for Multiple-Source Adaptation”, *Neural Information Processing Symposium (NeurIPS)*, 2018.
- [30] **Judy Hoffman**, Eric Tzeng, Taesung Park, Jun-Yan Zhu, Phillip Isola, Kate Saenko, Alyosha Efros, Trevor Darrell. “CyCADA: Cycle Consistent Adversarial Domain Adpatation”, *International Conference in Machine Learning (ICML)*, 2018.
- [31] Liyue Shen, Serena Yeung, **Judy Hoffman**, Greg Mori, Li Fei-Fei. “Scaling Human-Object Interaction Recognition through Zero-Shot Learning”, *Winter Conference on Applications in Computer Vision (WACV)*, 2018.
- [32] Zelun Luo, Yuliang Zou, **Judy Hoffman**, Li Fei-Fei. “Label Efficient Learning of Transferable Representations across Domains and Tasks”, *Neural Information Processing Systems (NIPS)*, 2017.
- [33] Timnit Gebru, **Judy Hoffman**, Li Fei-Fei, “Fine-grained Recognition in the Wild: A Multi-Task Domain Adaptation Approach ”, *International Conference in Computer Vision (ICCV)*, 2017.
- [34] Justin Johnson, Bharath Hariharan, Laurens van der Maaten, **Judy Hoffman**, Li Fei-Fei, C. Lawrence Zitnick, Ross Girshick. “Inferring and Executing Programs for Visual Reasoning”, *International Conference in Computer Vision (ICCV)*, 2017. ([Oral Presentation](#))
- [35] Eric Tzeng, **Judy Hoffman**, Kate Saenko, Trevor Darrell. “Adversarial Discriminative Domain Adaptation”, *In Proc. Computer Vision and Pattern Recognition (CVPR), Hawaii, USA, 2017*.
- [36] **Judy Hoffman**, Saurabh Gupta, Trevor Darrell. “Learning with Side Information through Modality Hallucination”, *In Proc. Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, USA, 2016. ([Spotlight Presentation](#))
- [37] Saurabh Gupta, **Judy Hoffman**, Jitendra Malik. “Cross Modal Distillation for Supervision Transfer”, *In Proc. Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, USA, 2016.
- [38] Xingchao Peng, **Judy Hoffman**, Stella Yu, Kate Saenko. “Fine-to-coarse Knowledge Transfer For Low-Res Image Classification”. *International Conference on Image Processing*, 2016.
- [39] **Judy Hoffman**, Saurabh Gupta, Jian Leong, Sergio Guadarrama, Trevor Darrell. “Cross-Modal Adaptation for RGB-D Detection”, *IEEE International Conference on Robotics and Automation (ICRA)*, Stockholm, Sweden, 2016.
- [40] Eric Tzeng\*, **Judy Hoffman\***, Trevor Darrell, Kate Saenko. “Simultaneous Deep Transfer Across Domains and Tasks”, *In Proc. International Conference on Computer Vision (ICCV)*, Santiago, Chile, 2015. \**Equal Contribution*
- [41] Damian Mowroca, Marcus Rohrbach, **Judy Hoffman**, Ronghang Hu, Kate Saenko, Trevor Darrell. “Spatial Semantic Regularisation for Large Scale Object Detection”, *In Proc. International Conference on Computer Vision (ICCV)*, Santiago, Chile, 2015.
- [42] **Judy Hoffman**, Deepak Pathak, Trevor Darrell, Kate Saenko. “Detector Discovery in the Wild: Joint Multiple Instance and Representation Learning,” *In Proc. Computer Vision and Pattern Recognition (CVPR)*, Boston, USA, 2015.
- [43] **Judy Hoffman**, Sergio Guadarrama, Eric Tzeng, Ronghang Hu, Jeff Donahue, Ross Girshick, Trevor Darrell, and Kate Saenko. “LSDA: Large Scale Detection through Adaptation,” *In Proc. Neural Information Processing (NIPS)*, Montreal, Canada, 2014.
- [44] **Judy Hoffman**, Trevor Darrell, and Kate Saenko. “Continuous Manifold Based Adaptation for Evolving Visual Domains”, *In Proc. Computer Vision and Pattern Recognition (CVPR)*, Ohio, USA, 2014.

- [45] Daniel Goehring, **Judy Hoffman**, Erik Rodner, Kate Saenko and Trevor Darrell. “Interactive Adaptation of Real-Time Object Detectors”, *In Proc. International Conference on Robotics and Automation (ICRA)*, Hong Kong, China, 2014.
- [46] Jeff Donahue, Yangqing Jia, Oriol Vinyals, **Judy Hoffman**, Ning Zhang, Eric Tzeng, Trevor Darrell. “DeCAF: A Deep Activation Feature for Generic Visual Recognition”, *In Proc. International Conference in Machine Learning (ICML)*, Beijing, China, 2014.
- [47] **Judy Hoffman**, Erik Rodner, Jeff Donahue, Kate Saenko, Trevor Darrell. “Efficient Learning of Domain-invariant Image Representations”, *In Proc. International Conference on Representation Learning (ICLR)*, Scottsdale, Arizona, 2013. ([Oral Presentation](#))
- [48] Jeff Donahue, **Judy Hoffman**, Erik Rodner, Kate Saenko, Trevor Darrell. “Semi-Supervised Domain Adaptation with Instance Constraints”, *In Proc. Computer Vision and Pattern Recognition (CVPR)*, Portland, Oregon, 2013.
- [49] **Judy Hoffman**, Brian Kulis, Trevor Darrell, Kate Saenko. “Discovering Latent Domains for Multisource Domain Adaptation”, *In Proc. European Conference in Computer Vision (ECCV)*, Florence, Italy, 2012.
- [50] Leonard Jaillet, **Judy Hoffman**, Jur van den Berg, Pieter Abbeel, Josep M. Porta, Ken Goldberg. “EG-RRT: Environment-Guided Random Trees for Kinodynamic Motion Planning with Uncertainty and Obstacles.” *In Proc. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, San Francisco, CA, 2011.
- [51] Daniel Bolya, **Judy Hoffman**. “Token Merging for Fast Stable Diffusion”. *Efficient Deep Learning for Computer Vision Workshop at CVPR*, 2023.
- [52] Sachit Kuhar, Alexey Tumanov, **Judy Hoffman**. “Signed Binary Weight Networks”. *3rd On-Device Intelligence Workshop at MLSys*, 2023.
- [53] George Stoica, Taylor Hearn, Bhavika Suresh Devnani, **Judy Hoffman**. “Bi-Directional Self-Attention for Vision Transformers”, *NeurIPS Vision Transformers: Theory and Applications Workshop*, 2022. [Best Paper Award](#)
- [54] Viraj Prabhu, Shivam Khare, Deeksha Kartik, **Judy Hoffman**. “Augmentation Consistency-guided Self-training for Source-free Domain Adaptive Semantic Segmentation”, *NeurIPS Workshop DistShift*, 2022.
- [55] Arjun Majumdar, Gunjan Aggarwal, Bhavika Suresh Devnani, **Judy Hoffman**, Dhruv Batra. “ZSON: Zero-Shot Object-Goal Navigation using Multimodal Goal Embeddings”, *CoRL Workshop on Pre-training Robot Learning*, 2022.
- [56] Daniel Bolya, Cheng-Yang Fu, Xiaoliang Dai, Peizhao Zhang, **Judy Hoffman**. “Hydra Attention: Efficient Attention with Many Heads”, *International Workshop on Computational Aspects of Deep Learning at ECCV*, 2022. [Best Paper Award](#)
- [57] Viraj Prabhu, Ramprasaath R. Selvaraju, **Judy Hoffman**, Nikhil Naik. “Can domain adaptation make object recognition work for everyone?”. *Computer Vision and Pattern Recognition (CVPR) L3D Workshop*, 2022
- [58] Fu Lin, Rohit Mittapali, Prithvijit Chattopadhyay, Daniel Bolya, **Judy Hoffman**. “Likelihood Landscapes: A Unifying Principle Behind Many Adversarial Defenses”, *Adversarial Robustness in the Real World (AROW)*, ECCV, 2020. [Best paper runner up](#)
- [59] Benjamin Wilson, **Judy Hoffman**, Jamie Morgenstern. “Predictive Inequity in Object Detection”, *Workshop on Fairness Accountability Transparency and Ethics at CVPR*, 2019.
- [60] Andreea Bobu, Eric Tzeng, **Judy Hoffman**, Trevor Darrell. “Adapting to Continuously Shifting Domains”, *International Conference on Learning Representations (ICLR) Workshop Track*, 2018.

- [61] Evan Shelhamer\*, Kate Rakelly\*, **Judy Hoffman\***, Trevor Darrell. “Clockwork Convnets for Video Semantic Segmentation.” *Workshop on Video Segmentation hosted at ECCV*, 2016.
- [62] Brian Chu, Vashisht Madhavan, Oscar Beijbom, **Judy Hoffman**, Trevor Darrell. “Best Practices for Fine-tuning Visual Classifiers to New Domains.” *TASK-CV Workshop hosted at ECCV*, 2016.
- [63] Oscar Beijbom, **Judy Hoffman**, Evan Yao, Trevor Darrell, Alberto Rodriguez - Ramirez, Manuel Gonzalez - Rivero, Ove Hoegh - Guldborg. “Quantification in-the-wild: data-sets and baselines.” *NIPS Workshop Transfer and Multi-task Learning: Trends and New Perspectives*, 2015.
- [64] **Judy Hoffman**, Eric Tzeng, Jeff Donahue, Yanqing Jia, Kate Saenko, and Trevor Darrell. “One-Shot Adaptation of Supervised Deep Convolutional Models”, *Presented at International Conference in Learning and Representation (ICLR)*, Banff, Canada, 2014.
- [65] Erik Rodner, **Judy Hoffman**, Jeff Donahue, Trevor Darrell, Kate Saenko. “Scalable Transform-based Domain ADaptation”. *VisDA: International Workshop on Visual Domain Adaptation and Dataset Bias (hosted at ICCV)*, Sydney, Australia, 2013.
- [66] Glen Hartmann, Matthias Grundmann, **Judy Hoffman**, David Tsai, Vivek Kwatra, Omid Madani, Sudheendra Vijayanarasimhan, Irfan Essa, James Rehg, Rahul Sukthankar. “Weakly Supervised Learning of Object Segmentations from Web-Scale Video.” *In Proc. European Conference in Computer Vision (ECCV) Workshop on Web-scale Vision and Social Media*, Florence, Italy, 2012. ([Best Paper Award](#))
- [67] **Judy Hoffman**, Kate Saenko, Brian Kulis, Trevor Darrell. “Domain Adaptation with Multiple Latent Domains.” *Neural Information Processing Symposium (NIPS) Domain Adaptation Workshop Talk*, Granada Spain, 2011. ([Best Student Paper Award](#))

PRE-PRINTS

- [68] George Stoica, Jakob Bjorner, Taylor Hearn, Daniel Bolya, **Judy Hoffman**. “ZipIt! Merging Models from Different Tasks without Training”, arXiv 2023.
- [69] Prithvijit Chattopadhyay\*, Kartik Sarangmath\*, Vivek Vijaykumar, **Judy Hoffman**. “Proportional Amplitude Spectrum Training Augmentation for Synthetic-to-Real Domain Generalization”, arXiv 2022.
- [70] Yogesh Balaji, Tom Goldstein, **Judy Hoffman**. “Instance adaptive adversarial training: Improved accuracy tradeoffs in neural nets.” <https://arxiv.org/abs/1910.08051>, 2020.
- [71] **Judy Hoffman**, Dequan Wang, Fisher Yu, Trevor Darrell. “FCNs in the Wild: Pixel-level Adversarial and Constraint-based Adaptation.” <http://arxiv.org/abs/1612.02649>, 2017.

ACADEMIC TALKS

- [1] **ECCV Workshop on Robust Vision**  
Invited Talk: Forms of Robustness Sep 2022
- [2] **Dagstuhl Seminar on Developmental Machine Learning: From Human Learning to Machines and Back**  
The Impact of Dataset Bias on Model Learning Sep 2022
- [3] **Cisco Responsible Computer Vision Workshop**  
Invited Talk: The Impact of Dataset Bias Aug 2022
- [4] **Responsible Computer Vision Tutorial**  
How do models fail and what can we do about it? May 2022
- [5] **Workshop at CVPR on The Art of Robustness: Devil and Angel in Adversarial Machine Learning**  
Invited Talk: Forms of Robustness May 2022

- [6] **Visual Perception and Learning in an Open World at CVPR**  
Invited Talk: Seeing in a Diverse World May 2022
- [7] **MIT Vision Seminar**  
Invited Talk: Reliable and Accessible Visual Recognition April 2022
- [8] **National Institutes of Standards and Technology (NIST)**  
Invited Talk: Measuring and Mitigating Bias in Vision Systems April 2022
- [9] **University of Maryland, College Park, Deep Learning Seminar**  
Invited Talk: Reliable and Accessible Visual Recognition Apr 2022
- [10] **ICLR Workshop Socially Responsible ML**  
Invited Talk: The Impact of Dataset Bias Apr 2022
- [11] **NeurIPS workshop on Distribution Shifts**  
Invited Talk: Panel Discussion Nov 2021
- [12] **CMU Computer Vision Seminar Series**  
Invited Talk: Selective Domain Adaptation Oct 2021
- [13] **Deep MTL Workshop at ICCV**  
Invited Talk: Moving Beyond Bespoke Models Sep 2021
- [14] **UIUC Computer Vision Seminar**  
Invited Talk: Selective Domain Adaptation Sep 2021
- [15] **IRIM Robotics Seminar at Georgia Tech**  
Invited Talk: Understanding and Mitigating Bias in Vision Systems Sep 2021
- [16] **Robust Video Scene Understanding Workshop at CVPR**  
Invited Talk: Lessons from Domain Adaptation for Robust Video Understanding May 2021
- [17] **Adversarial Machine Learning Tutorial at CVPR**  
Detecting Reliable Instances for Learning May 2021
- [18] **Responsible Computer Vision Workshop at CVPR**  
Fireside Chat with Kate Crawford May 2021
- [19] **Georgia Tech Google Robotics Workshop**  
Invited Talk: Robust Vision for Embodied Navigation April 2021
- [20] **Google Research**  
Invited Talk: Understanding and Mitigating Model and and Dataset Bias April 2021
- [21] **UC Berkeley ITS Seminar**  
Invited Talk: The Perils of Learning from Biased Data Apr 2021
- [22] **TUM AI**  
Invited Talk: Understanding and Mitigating Model and and Dataset Bias Mar 2021
- [23] **N.C. A and T**  
Invited Talk: Understanding and Mitigating Bias in Visual Recognition Nov 2020
- [24] **US Embassy Paris and ANITI**  
Invited Talk: Bias in Visual Recognition Systems Oct 2020
- [25] **USC ISI**  
Invited Talk: Understanding and Mitigating Bias in Visual Recognition Sep 2020
- [26] **John Hopkins University**  
Invited Talk: Understanding and Mitigating Bias in Visual Recognition Sep 2020
- [27] **Adversarial Robustness in the Wild at ECCV**  
Invited Talk: Achieving and Understanding Adversarial Robustness July 2020
- [28] **Fair Face Recognition Workshop at ECCV**  
Invited Talk: Analyzing Bias in Computer Vision Systems July 2020

- [29] **ARO Sponsored Workshop on Synthetic Data in AI/ML**  
Invited Talk: Maximizing Transferability when Learning in Simulation June 2020
- [30] **UG2 Workshop at CVPR**  
Invited Talk: Making vision robust to data and model bias May 2020
- [31] **Embodied AI Workshop at CVPR**  
Invited Talk: Maximizing Transferability when Learning in Simulation May 2020
- [32] **ARO Sponsored Assured Autonomy Workshop**  
Invited Talk: Making perception robust to data and model bias May 2020
- [33] **Learning with Limited Labels Workshop at CVPR**  
Invited Talk: Generalizing and Actively Adapting to New Domains May 2020
- [34] **Inaugural Speaker of Frederica Darema Lecture Series at IIT Chicago**  
Invited Talk: How Dataset Bias Leads to Learned Model Failures Nov 2019
- [35] **ML@GT Seminar**  
Invited Talk: Analyzing Fairness in Computer Vision Systems Oct 2019
- [36] **ICCV Tutorial on Learning with Limited Labels**  
Invited Talk: Domain Adaptation Tutorial Sep 2019
- [37] **CVPR Workshop: Women in Computer Vision**  
Invited Talk: Adversarial Domain Adaptation and Robustness to Adversaries May 2019
- [38] **CVPR Workshop: Vision for All Seasons**  
Invited Talk: Generalizing Models to a Diverse World May 2019
- [39] **MIT Workshop: GANocracy: Workshop on Theory, Practice and Artistry of Deep Generative Modeling**  
Invited Talk: Adversarial Domain Adaptation April 2019
- [40] **CVPR Area Chairs Meeting**  
Adapting and Generalizing Across Domains Feb 2019
- [41] **National Academy of Science Workshop: Robust Machine Learning Algorithms and Systems: Detection & Mitigation of Adversarial Attacks and Anomalies**  
Invited Talk: Domain Adaptation Nov 2018
- [42] **NeurIPS Workshop: Integration of Deep Learning Theories**  
Invited Talk: Domain Adaptation and Multisource Generalization Nov 2018
- [43] **ICML Conference Presentation**  
Cycle Consistent Adversarial Domain Adaptation June 2018
- [44] **CVPR Tutorial on GANs**  
Invited Talk: Adversarial Domain Adaptation May 2018
- [45] **CVPR Workshop on Vision with Biased or Scarce Data**  
Invited Talk: Making your data count: sharing information across domains and tasks May 2018
- [46] **CVPR Workshop on Robust Vision**  
Invited Talk: Making our Models Robust to Changing Visual Environments May 2018
- [47] **Facebook AI Research**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World May 2018
- [48] **University of Maryland, College Park**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Apr 2018
- [49] **University of Virginia**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Apr 2018
- [50] **University of North Carolina, Chapel Hill**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Mar 2018



- [51] **Carnegie Melon University**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Mar 2018
- [52] **Georgia Institute of Technology**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Mar 2018
- [53] **University of Wisconsin, Madison**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Mar 2018
- [54] **Massachusetts Institute of Technology**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Mar 2018
- [55] **New York University**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Feb 2018
- [56] **UC Santa Barbara**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Feb 2018
- [57] **University of Chicago**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Feb 2018
- [58] **University of Massachusetts Amherst**  
Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World Feb 2018
- [59] **Berkeley Deep Drive Symposium**  
Invited Talk: Domain adaptation: From simulation data to real world training data Sep 2017
- [60] **Qualcomm Research**  
Invited Talk: A General Framework for Domain Adversarial Learning June 2017
- [61] **OpenAI**  
Invited Talk: A General Framework for Domain Adversarial Learning May 2017
- [62] **Berkeley Artificial Intelligence Research (BAIR) Seminar**  
Invited Talk: A General Framework for Domain Adversarial Learning Apr 2017
- [63] **ReWork Deep Learning Summit SF**  
Invited Talk: A General Framework for Domain Adversarial Learning Jan 2017
- [64] **Yahoo Japan**  
Invited Talk: Deep Domain Adaptation Mar 2016
- [65] **Sony Japan**  
Invited Talk: Deep Domain Adaptation Mar 2016
- [66] **Berkeley Artificial Intelligence (BAIR) Retreat**  
Invited Talk: Adaptive Deep Learning Mar 2016
- [67] **Stanford Vision Seminar**  
Invited Talk: Adapting Deep Networks Across Domains, Modalities, and Tasks Jan 2016
- [68] **ICCV TASK-CV Workshop**  
Invited Talk: Adapting Deep Networks Across Domains, Modalities, and Tasks Nov 2015
- [69] **MIT Rising Stars in EECS Workshop**  
Invited Talk: Adapting Deep Models for Visual Recognition in the Wild Oct 2015
- [70] **Bay Area Robotics Symposium**  
Simultaneous Transfer Across Domains and Tasks Sep 2015
- [71] **Amazon Computer Vision PhD Symposium**  
Adapting Deep Networks to Real World Problems Sep 2015
- [72] **Berkeley-Stanford Vision Learning Meeting**  
Large scale recognition through adaptation Aug 2015
- [73] **Dagstuhl seminar on ML with Non-identically Distributed Data**  
Invited Talk: Category Invariant Cross Modality Transfer Apr 2015

- [74] **IST Austria Symposium on Computer Vision and Machine Learning**  
Invited Talk: Continuous Adaptation with Limited Target Labeled Data Jan 2015
- [75] **DARPA Meeting**  
Invited Talk: Transfer of Deep Vision (and Language) models for “TOT” Oct 2014
- [76] **Baylearn**  
LSDA: Large Scale Detection through Adaptation Sep 2014
- [77] **International Conference on Learning Representation (ICLR)**  
Efficient Learning of Domain Invariant Image Representations April 2013
- [78] **Women in Machine Learning co-located at NIPS**  
Discovering Latent Domains for Multisource Domain Adaptation Nov 2012

SERVICE &  
LEADERSHIP

**Leadership**

- ICCV The 2nd computer vision for Metaverse workshop 2023
- ICCV Adversarial Robustness in the Wild Workshop Organizer 2023
- ECCV Responsible Computer Vision Workshop Organizer 2022
- ECCV Adversarial Robustness in the Wild Workshop Organizer 2022
- ECCV Learning with Limited and Imperfect Data Workshop Organizer 2022
- Diversity and Inclusion Fellow at Georgia Tech 2021-2022
- ICCV LVIS Workshop Organizer 2021
- ICCV Workshop on Adversarial Robustness in the Real World Organizer 2021
- CVPR Responsible Computer Vision Workshop Organizer 2021
- CVPR Adversarial Machine Learning in Computer Vision Workshop Organizer 2021
- CVPR Learning from Limited and Imperfect Data Workshop Organizer 2021
- ICCV Tutorial on Learning with Limited Labels Organizer 2019
- Co-founder Women in Computer Vision and inaugural workshop organizer 2015-present
- ECCV/ICCV TASK-CV workshop and domain adaptation challenge organizer 2017-2019
- NeurIPS workshop on transfer and multi-task learning organizer 2015
- Co-President Women in computer science and engineering at UC Berkeley 2012-2013

**Mentoring / Outreach**

- CVPR Doctoral Consortium Mentor 2022
- CVPR Mentor to Junior Researchers 2021
- Bias in AI Panel at Woodward Academy High School Spring 2021
- Advisor for African Masters Program in AI Fall 2020
- Panelist on applying to academic jobs (Georgia Tech) 2019
- Panelist on building a professional network (Georgia Tech) 2019
- ICCV Doctoral Consortium Mentor 2019
- Mentor at Women in Computer Vision 2018-2022
- Mentor at Women in Machine Learning 2018
- EECS Peers Mentor 2013 - 2016
- Graduate mentor to 2-3 undergraduate women per year 2010 - 2016
- Outreach and Diversity Officer of the CS graduate association (UC Berkeley) 2013-2014
- Organized Workshop on Applying to Graduate school at Grace Hopper Conference 2012

**Thesis Committees**

- James Smith (advisor: Zsolt Kira) - PhD expected 2024
- Chia-Wen Kuo (advisor: Zsolt Kira) - PhD expected 2024
- Cusuh Ham (advisor: James Hays) - PhD expected 2023
- Viraj Prabhu (advisor: Judy Hoffman) - PhD expected 2023
- Haeku Park (advisor: Polo Chau) - PhD expected 2023
- Yen-Cheng Liu (advisor: Zsolt Kira) - PhD expected 2023
- Stefan Stojanov (advisor: Jim Rehg) - PhD expected 2023
- Jinsol Lee (advisor: Ghassan AlRegib)- PhD expected 2023

Joseph Oluwaseun Aribido (advisor: Ghassan AlRegib) - PhD	expected 2023
Luyu Yang (advisor: Abhinav Srivastana) - PhD	July 2022
Samyak Datta (advisor: Devi Parikh) - PhD	July 2022
Supriya Nagesh (advisor: Jim Rehg) - PhD	Sept 2022
Himanshu Sahni (Advisor: Charles Isbell) - PhD	Dec 2021
Steven Hickson (advisor: Irfan Essa) - PhD	Mar 2020
Yen-Chang Hsu (advisor: Zsolt Kira) - PhD	Mar 2020
Ramprasaath Ramasamy Selvaraju (advisor: Devi Parikh) - PhD	Mar 2020
Jiasen Lu (advisor: Devi Parikh) - PhD	Jan 2020
Jianwei Yang (advisor: Devi Parikh) - PhD	Jan 2020

### Current Advising

Daniel Bolya (PhD) <i>NSF-GRFP</i>	Aug 2019 - Present
Viraj Prabhu (PhD)	Aug 2019 - Present
Prithvijit Chattopadhyay (PhD) <i>7001 Research Award</i>	Aug 2019 - Present
George Stoica (PhD) <i>NSF-GRFP</i>	Aug 2021 - Present
Simar Kareer (PhD)	Aug 2022 - Present
Pratik Ramesh (PhD)	Jan 2023 - Present

Sriram Yenamandra (MS)	Jan 2022 - Present
Sahil Khose (MS)	Jan 2023 - Present
Anisha Pal (MS)	Jan 2023 - Present
Bharat Goyal (BS/MS)	Jan 2023 - Present

Vivek Vijaykumar (BS)	Aug 2021 - Present
Jakob Bjorner (BS)	Aug 2022 - Present
Bogi Ecsedi (BS)	Jan 2023 - Present

### Former Advisees

Aayushi Agarwal (MS)	Aug 2021 - May 2023
Aaditya Singh (MS)	Jan 2022 - May 2023
Taylor Hearn (MS)	Jan 2022 - May 2023
Deepanshi Deepanshi (MS)	Aug 2021 - May 2023
Kartik Sarangmath (BS/MS)	Jan 2021 - Dec 2023
Sean Foley (MS, co-advised James Hays)	Aug 2019 - May 2023
Bhavika Devnani (MS) <i>Next: Apple AI</i>	Jan 2021 - Dec 2022
Sruthi Sudhakar (BS) <i>Next: CS PhD Columbia</i> <i>NSF GRFP, GT CoC Outstanding Ugrad Research Award</i>	Aug 2020 - May 2022

Deeksha Kartik (MS) <i>Next: PathAI</i>	Aug 2020 - May 2022
Luis Bermudez (MS)	Spring 2021
Rohit Mittapalli (BS) <i>Next: Startup</i>	Jan 2020 - May 2021
Shivam Khare (MS) <i>Next: Twitter AI</i>	Aug 2020 - May 2021
Arvind Krishnakumar (MS)	Jan 2020 - May 2021
Fu Lin (MS) <i>Next: AWS Beijing</i>	Jan 2020 - July 2020
James Hahn (MS)	Spring 2020
Hazel Jian (BS)	Fall 2020

### Department Service

School of Interactive Computing Advisory Committee	Fall 2021 - Spring 2023
PhD student recruitment coordinator (Georgia Tech)	2020-2021
ML@GT Social Event Coordinator	2020
PhD student recruitment coordinator (Georgia Tech)	2019-2020
Postdoc member of graduate admissions committee (Stanford)	2016

Student member of graduate admissions committee (UC Berkeley) 2013-2015

### Editorial Service

#### Chair Positions:

CVPR Program Committee Chair 2023

*1/5 lead organizers for ~10,000 submissions, 400 Area Chairs, 6000 reviewers*

ICCV Tutorial Chair 2023

#### Associate Editor:

IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI) 2021,2022, 2023

International Journal on Computer Vision (IJCV) 2020,2021,2022

#### Area Chair / Senior Program Committee:

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2019, 2020, 2021

Neural Information Processing Systems (NeurIPS) 2021, 2023

International Conference on Learning Representations (ICLR) 2019, 2020

IEEE/CVF International Conference in Computer Vision (ICCV) 2019,2021

International Conference in Machine Learning (ICML) 2020

#### Reviewer:

IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI) 2013-2017

Journal of Machine Learning Research (JMLR) 2013-2017

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2014-2018

IEEE/CVF International Conference in Computer Vision (ICCV) 2015,2017,2019

European Conference in Computer Vision (ECCV) 2016,2018,2020

Neural Information Processing Systems (NeurIPS) 2016-2018

International Conference on Learning Representations (ICLR) 2018

International Conference in Machine Learning (ICML) 2017-2019

IEEE International Conference on Robotics and Automation (ICRA) 2014-2019

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2014-2016

### TEACHING EXPERIENCE

#### Georgia Institute of Technology

*Instructor*

CS 4476 Introduction to Computer Vision

Atlanta, GA

January 2023 - May 2023

#### Georgia Insitute of Technology

*Instructor*

CS 8803-LS: Machine Learning with Limited Supervision

Atlanta, GA

August 2022 - December 2022

#### Georgia Insitute of Technology

*Instructor*

CS 4476 Introduction to Computer Vision

Atlanta, GA

January 2022 - April 2022

#### Georgia Insitute of Technology

*Instructor*

CS 8803-LS: Machine Learning with Limited Supervision

Atlanta, GA

August 2021 - December 2021

#### Georgia Insitute of Technology

Atlanta, GA

*Instructor*  
CS 4476 Introduction to Computer Vision

January 2021 - April 2021

**Georgia Institute of Technology**  
*Instructor*  
CS 4476/6476 Introduction to Computer Vision

Atlanta, GA  
January 2020 - April 2020

**Georgia Institute of Technology**  
*Instructor*  
CS 8803-LS: Machine Learning with Limited Supervision

Atlanta, GA  
August 2019 - December 2019

**University of California Berkeley**  
*Teaching Assistant*  
CS 188: Introduction to Artificial Intelligence.

Berkeley, CA  
January 2013 - May 2013

**University of California Berkeley**  
*Teaching Assistant*  
EE 20N: Introduction to Signals and Systems.

Berkeley, CA  
August 2009 - December 2009