# Judy Hoffman

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	algorithms which facilitate the transfer of a model adaptation and generalization. My w	puter vision and machine learning. I develop learning information through unsupervised and semi-supervised ork reuses and shares information across visual environ- to tackle real-world variation and scale while minimizing
Appointments	Georgia Tech Atlanta, GA Assistant Professor, College of Computing	Since August 2019
	<b>Facebook AI Research</b> Menlo Park, CA Visiting Research Scientist	September 2018 - July 2019
	<b>University of California, Berkeley</b> Berk Postdoctoral Researcher with Trevor Darrel	•••••••••••••••••••••••••••••••••••••••
	<b>Stanford University</b> Palo Alto, CA Postdoctoral Researcher with Fei-Fei Li	August 2016 - June 2017
	<b>Google Research:</b> Machine Perception Te Software Engineering Intern, PhD	eam Mountain View, CA May 15, 2012 - August 10, 2012
Honors and Awards	Best Paper Award ECCV Workshop on G Samsung AI Researcher of the Year A Diversity and Inclusion Fellow Georgia Female Leader in CV Awarded by NVID ECCV Outstanding Reviewer Award AI2000 Most Influential Scholar Hono "Thank-a-Teacher" Award, Georgia Tech	an Evolving World202220222022a Vision Transformers Theory and Applications2022Computational Aspects of Deep Learning2022warded to 5 researchers worldwide2021Tech2021-2022DIA2020a Z0192020rable Mention for ML Awarded by AiMiner2020a Z019,20202019a stness in the Real World (AROW) at ECCV2020a Research Fellowship2012-2015Social Media Workshop at ECCV2012blarshipAugust 2012workshop at NeurIPS2011August 2010 - May 2011May 2010shipAugust 2009 - May 2010

	Eta Kappa Nu, Member and Officer Rose Hills Engineering Scholarship Edward Frank Kraft Award	December 2007 - Spring 2010 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 Sci Graduated with Department Honors Advised by Ken Goldberg	ience Honors Program	
Book Chapters	<ol> <li>Judy Hoffman, Eric Tzeng, Trevor Darrell, Kate Saenka Domains and Tasks" In <i>Domain Adaptation in Computer</i> 187, 2017.</li> </ol>		
JOURNAL [2] Simar Kareer, Vivek Vijaykumar, Harsh Maheshwari, Prithvijit PUBLICATIONS [2] Simar Kareer, Vivek Vijaykumar, Harsh Maheshwari, Prithvijit man, Viraj Prabhu. "We're Not Using Videos Effectively: An Upo tion Baseline", <i>Transactions on Machine Learning Research (TML</i>		n Updated Video Domain Adapta-	
	[3] Viraj Prabhu, David Acuna, Yuan-Hong Liao, Rafid Mahmood, Marc T. Law, <b>Judy Hoffman</b> , Sanja Fidler, James Lucas. "Bridging the Sim2Real gap with CARE: Supervised Detection Adaptation with Conditional Alignment and Reweighting." <i>Transactions on Machine Learning</i> <i>Research (TMLR)</i> , 2023.		
	[4] Ningshan Zhang, Mehryar Mohri, <b>Judy Hoffman</b> . "Multi- Algorithms", Annals of Mathematics and Artificial Intelligen	•	
	[5] Eric Tzeng, Coline Devin, Judy Hoffman, Chelsea Finn, I Saenko, Trevor Darrell. "Adapting deep visuomotor repress straints", Algorithmic Foundations of Robotics XII, 2020.		
	[6] Judy Hoffman, Deepak Pathak, Eric Tzeng, Jonathan Lon rell, and Kate Saenko. "Large Scale Visual Recognition thr resentation and Multiple Instance Learning", <i>Journal of Ma</i> <i>Special Issue on Multi Task Learning</i> , 2016.	ough Adaptation using Joint Rep-	
	[7] Judy Hoffman, Erik Rodner, Jeff Donahue, Brian Kulis, an Category Invariant Feature Transformations for Domain Ada Computer Vision (IJCV) Special Issue on Domain Adaptation	aptation", International Journal of	
Conference Publications	[8] Prithvijit Chattopadhyay, Bharat Goyal, Bogi Ecsedi, Viraj CAL: Sim-to-Real Adaptation by Improving Uncertainty Ca Images", International Conference on Learning Representati	alibration on Augmented Synthetic	
	[9] Daniel Bolya, Chaitanya Ryali, Judy Hoffman, Christoph is Bugged: How not to Interpolate Position Embeddings", In Representations (ICLR), 2024		
	<ul> <li>[10] George Stoica, Daniel Bolya, Jakob Bjorner, Pratik Rames.</li> <li>"ZipIt! Merging Models from Different Tasks without Trai Learning Representations (ICLR), 2024</li> </ul>	· •	

- [11] Viraj Prabhu, Sriram Yenamandra, Prithvijit Chattopadhyay, Judy Hoffman. "LANCE: Stress-testing Visual Models by Generating Language-guided Counterfactual Images". Neural Information Processing Systems (NeurIPS), 2023.
- [12] Micah Goldblum, Hossein Souri, Renkun Ni, Manli Shu, Viraj Uday Prabhu, Gowthami Somepalli, Prithvijit Chattopadhyay, Adrien Bardes, Mark Ibrahim, Judy Hoffman, Rama Chellappa, Andrew Gordon Wilson, Tom Goldstein. "Battle of the Backbones: A Large-Scale Comparison of Pretrained Models across Computer Vision Tasks." NeurIPS Dataset and Benchmark Track, 2023.
- [13] Prithvijit Chattopadhyay\*, Kartik Sarangmath\*, Vivek Vijaykumar, Judy Hoffman. "Proportional Amplitude Spectrum Training Augmentation for Synthetic-to-Real Domain Generalization", *IEEE/CVF International Conference in Computer Vision (ICCV)* 2023. (\*Equal Contribution)
- [14] Sriram Yenamandra, Pratik Ramesh, Viraj Prabhu, Judy Hoffman. "FACTS: First Amplify Correlations and Then Slice to Discover Bias", *IEEE/CVF International Conference in Computer Vision (ICCV)*, 2023.
- [15] Aaditya Singh\*, Kartik Sarangmath\*, Prithvijit Chattopadhyay, Judy Hoffman. "Benchmarking Low-Shot Robustness to Natural Distribution Shifts", *IEEE/CVF International Conference* in Computer Vision (ICCV), 2023. (\*Equal Contribution)
- [16] 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 "Hiera: A Hierarchical Vision Transformer without the Bells-and-Whistles", International Conference on Machine Learning (ICML), 2023. Oral Presentation
- [17] 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%
- [18] 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.
- [19] 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.
- [20] 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.
- [21] 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)
- [22] 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.
- [23] 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
- [24] Sruthi Sudhakar, Viraj Prabhu, Arvind Krishnakumar, Judy Hoffman. "Mitigating Bias in Visual Transformers via Targeted Alignment", British Machine Vision Conference (BMVC), 2021.

- [25] Arvind Krishnakumar, Viraj Prabhu, Sruthi Sudhakar, Judy Hoffman. "UDIS: Unsupervised Discovery of Bias in Deep Visual Recognition Models", British Machine Vision Conference (BMVC), 2021.
- [26] Daniel Bolya\*, Rohit Mittapali\*, Judy Hoffman. "Scalable Diverse Model Selection for Accessible Transfer Learning", Neural Information Processing Systems (NeurIPS), 2021.
- [27] 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.
- [28] Prithvijit Chattopadhyay, Judy Hoffman, Roozbeh Mottaghi, Ani Kembhavi. "RobustNav: Towards Benchmarking Robustness in Embodied Navigation." International Conference in Computer Vision (ICCV), 2021. (Oral Presentation)
- [29] Viraj Prabhu, Arjun Chandrasekaran, Kate Saenko, Judy Hoffman. "Active Domain Adaptation via Clustering Uncertainty-weighted Embeddings." International Conference in Computer Vision (ICCV), 2021.
- [30] 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.
- [31] 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.
- [32] Baifeng Shi, Judy Hoffman, Kate Saenko, Trevor Darrell, Huijuan Xu. "Auxiliary Task Reweighting for Minimum-data Learning". Neural Information Processing Systems (NeurIPS), 2020.
- [33] 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.
- [34] 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)
- [35] 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.
- [36] 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.
- [37] Judy Hoffman, Daniel A. Roberts, Sho Yaida. "Robust Learning with Jacobian Regularization" Conference on the Mathematical Theory of Deep Learning (DeepMath), 2019.
- [38] 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.
- [39] Judy Hoffman, Mehryar Mohri, Ningshan Zhang. "Algorithms and Theory for Multiple-Source Adaptation", Neural Information Processing Symposium (NeurIPS), 2018.
- [40] 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.
- [41] 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.

- [42] 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.
- [43] 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.
- [44] 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)
- [45] Eric Tzeng, Judy Hoffman, Kate Saenko, Trevor Darrell. "Adversarial Discriminative Domain Adaptation", In Proc. Computer Vision and Pattern Recognition (CVPR), Hawaii, USA, 2017.
- [46] 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)
- [47] Saurabh Gupta, Judy Hoffman, Jitendra Malik. "Cross Modal Distillation for Supervision Transfer", In Proc. Computer Vision and Pattern Recognition (CVPR), Las Vegas, USA, 2016.
- [48] Xingchao Peng, Judy Hoffman, Stella Yu, Kate Saenko. "Fine-to-coarse Knowledge Transfer For Low-Res Image Classification". International Conference on Image Processing, 2016.
- [49] 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.
- [50] 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
- [51] 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.
- [52] 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.
- [53] 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.
- [54] 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.
- [55] 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.
- [56] 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.
- [57] 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)
- [58] 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.

- [59] 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.
- [60] 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.

#### WORKSHOP PUBLICATIONS

- [61] Haekyu Park, Seongmin Lee, Benjamin Hoover, Austin Wright, Omar, Shaikh, Rahul Duggal, Nilaksh Das, Judy Hoffman, Duen Horng Chau. "ConceptEvo: Interpreting Concept Evolution in Deep Learning Training", ICML AI/HCI Workshop, 2023.
- [62] Sruthi Sudhakar, Viraj Prabhu, Olga Russakovsky, Judy Hoffman. "ICON2: Reliably Benchmarking Predictive Inequity in Object Detection", Secure and Safe Autonomous Driving (SSAD) Workshop and Challenge Workshop at CVPR, 2023.
- [63] Daniel Bolya, Judy Hoffman. "Token Merging for Fast Stable Diffusion". Efficient Deep Learning for Computer Vision Workshop at CVPR, 2023.
- [64] Sachit Kuhar, Alexey Tumanov, Judy Hoffman. "Signed Binary Weight Networks". 3rd On-Device Intelligence Workshop at MLSys, 2023.
- [65] 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
- [66] Viraj Prabhu, Shivam Khare, Deeksha Kartik, Judy Hoffman. "Augmentation Consistencyguided Self-training for Source-free Domain Adaptive Semantic Segmentation", NeurIPS Workshop DistShift, 2022.
- [67] 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.
- [68] 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
- [69] 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
- [70] 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
- [71] Benjamin Wilson, Judy Hoffman, Jamie Morgenstern. "Predictive Inequity in Object Detection", Workshop on Fairness Accountability Transparency and Ethics at CVPR, 2019.
- [72] Andreea Bobu, Eric Tzeng, Judy Hoffman, Trevor Darrell. "Adapting to Continuously Shifting Domains", International Conference on Learning Representations (ICLR) Workshop Track, 2018.
- [73] Evan Shelhamer\*, Kate Rakelly\*, Judy Hoffman\*, Trevor Darrell. "Clockwork Convnets for Video Semantic Segmentation." Workshop on Video Segmentation hosted at ECCV, 2016.
- [74] 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.

- [75] Oscar Beijbom, Judy Hoffman, Evan Yao, Trevor Darrell, Alberto Rodriguez Ramirez, Manuel Gonzlez - Rivero, Ove Hoegh - Guldberg. "Quantification in-the-wild: data-sets and baselines." NIPS Workshop Transfer and Multi-task Learning: Trends and New Perspectives, 2015.
- [76] 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.
- [77] Erik Rodner, Judy Hoffman, Jeff Donahue, Trevor Darrell, Kate Saenko. "Scalable Transformbased Domain ADaptation". VisDA: International Workshop on Visual Domain Adaptation and Dataset Bias (hosted at ICCV), Sydney, Australia, 2013.
- [78] 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)
- [79] 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	[80]	Yogesh Balaji, Tom Goldstein, <b>Judy Hoffman</b> . "Instance adaptive adversarial t proved accuracy tradeoffs in neural nets." <i>https://arxiv.org/abs/1910.08051</i> , 2020.	0
	[81]	Judy Hoffman, Dequan Wang, Fisher Yu, Trevor Darrell. "FCNs in the Wild Adversarial and Constraint-based Adaptation." http://arxiv.org/abs/1612.02649, 2	
Academic Talks	[1]	<b>CoRL 2023 Workshop on Out-of-Distribution Generalization</b> Invited Talk: From Visual Generalization to Robotics Generalization	Oct 2023
	[2]	GeoNet: Unsupervised Adaptation across Geographies Workshop at IC Invited Talk: Discovering and Interpreting Model Bias	CV Sep 2023
	[3]	<b>Plernary Session at CVPR 2023 on Vision, Language, and Creativity</b> Panel Moderator	May 2023
	[4]	11th Women in Computer Vision (WiCV) workshop at CVPR 2023 Invited Talk: Efficient and Reliable Vision Models	May 2023
	[5]	Synthetic Data for Autonomous Systems (SDAS) Workshop at CVPR 2 Invited Talk: Reliable Vision for a Changing World	2 <b>023</b> May 2023
	[6]	<b>6th Efficient Deep Learning for Computer Vision workshop at CVPR20</b> Invited Talk: Increasing Efficiency by Reducing Redundancy	<b>23</b> May 2023
	[7]	The 3rd Workshop of Adversarial Machine Learning on Computer Vis Robustness at CVPR 2023 Invited Talk: Reliable Vision for a Changing World	ion: Art of May 2023
	[8]		Apr 2023
	[9]	Boston University CISE Seminar Invited Talk: Reliable Vision for a Changing World	Mar 2023
	[10]	<b>Google Machine Perception Seminar</b> Invited Talk: Reliable Vision for a Changing World	Jan 2023

[11]	Dagsthul Seminar on Developmental Machine Learning: From Human Machines and Back The Impact of Dataset Bias on Model Learning	Learning to Sep 2022
[12]	ECCV Workshop on Robust Vision Invited Talk: Forms of Robustness	Sep 2022
[13]	<b>Cisco Responsible Computer Vision Workshop</b> Invited Talk: The Impact of Dataset Bias	Aug 2022
[14]	<b>Responsible Computer Vision Tutorial</b> How do models fail and what can we do about it?	May 2022
[15]	Workshop at CVPR on The Art of Robustness: Devil and Angel in Machine Learning	
[16]	Invited Talk: Forms of Robustness Visual Perception and Learning in an Open World at CVPR Invited Talk: Seeing in a Diverse World	May 2022 May 2022
[17]	National Institutes of Standards and Technology (NIST) Invited Talk: Measuring and Mitigating Bias in Vision Systems	April 2022
[18]	MIT Vision Seminar Invited Talk: Reliable and Accessible Visual Recognition	April 2022
[19]	ICLR Workshop Socially Responsible ML Invited Talk: The Impact of Dataset Bias	Apr 2022
[20]	University of Maryland, College Park, Deep Learning Seminar Invited Talk: Reliable and Accessible Visual Recognition	Apr 2022
[21]	<b>NeurIPS workshop on Distribution Shifts</b> Invited Talk: Panel Discussion	Nov 2021
[22]	<b>CMU Computer Vision Seminar Series</b> Invited Talk: Selective Domain Adaptation	Oct 2021
[23]	<b>IRIM Robotics Seminar at Georgia Tech</b> Invited Talk: Understanding and Mitigating Bias in Vision Systems	Sep 2021
[24]	<b>Deep MTL Workshop at ICCV</b> Invited Talk: Moving Beyond Bespoke Models	Sep 2021
[25]	<b>UIUC Computer Vision Seminar</b> Invited Talk: Selective Domain Adaptation	Sep 2021
[26]	<b>Adversarial Machine Learning Tutorial at CVPR</b> Detecting Reliable Instances for Learning	May 2021
[27]	<b>Responsible Computer Vision Workshop at CVPR</b> Fireside Chat with Kate Crawford	May 2021
[28]	<b>Robust Video Scene Understanding Workshop at CVPR</b> Invited Talk: Lessons from Domain Adaptation for Robust Video Understanding	May 2021
[29]	<b>Google Research</b> Invited Talk: Understanding and Mitigating Model and and Dataset Bias	April 2021
[30]	Georgia Tech Google Robotics Workshop Invited Talk: Robust Vision for Embodied Navigation	April 2021
[31]	UC Berkeley ITS Seminar Invited Talk: The Perils of Learning from Biased Data	Apr 2021
[32]	<b>TUM AI</b> Invited Talk: Understanding and Mitigating Model and and Dataset Bias	Mar 2021

[33]	N.C. A and T	
[00]	Invited Talk: Understanding and Mitigating Bias in Visual Recognition	Nov 2020
[34]	US Embassy Paris and ANITI	Oct 2020
[25]	Invited Talk: Bias in Visual Recognition Systems John Hopkins University	Oct 2020
	Invited Talk: Understanding and Mitigating Bias in Visual Recognition	Sep 2020
[36]	<b>USC ISI</b> Invited Talk: Understanding and Mitigating Bias in Visual Recognition	Sep 2020
[37]	Adversarial Robustness in the Wild at ECCV Invited Talk: Achieving and Understanding Adversarial Robustness	July 2020
[38]	Fair Face Recognition Workshop at ECCV Invited Talk: Analyzing Bias in Computer Vision Systems	July 2020
[39]	ARO Sponsored Workshop on Synthetic Data in AI/ML Invited Talk: Maximizing Transferability when Learning in Simulation	June 2020
[40]	ARO Sponsored Assured Autonomy Workshop Invited Talk: Making perception robust to data and model bias	May 2020
[41]	Learning with Limited Labels Workshop at CVPR Invited Talk: Generalizing and Actively Adapting to New Domains	May 2020
[42]	UG2 Workshop at CVPR Invited Talk: Making vision robust to data and model bias	May 2020
[43]	Embodied AI Workshop at CVPR Invited Talk: Maximizing Transferability when Learning in Simulation	May 2020
[44]	Invited Talk: Maximizing Transierability when Learning in Simulation Inaugural Speaker of Frederica Darema Lecture Series at IIT Chicago Invited Talk: How Dataset Bias Leads to Learned Model Failures	Nov 2019
[45]	ML@GT Seminar	
[ -]	Invited Talk: Analyzing Fairness in Computer Vision Systems	Oct 2019
[46]	ICCV Tutorial on Learning with Limited Labels Invited Talk: Domain Adaptation Tutorial	Sep 2019
[47]	<b>CVPR Workshop: Women in Computer Vision</b> Invited Talk: Adversarial Domain Adaptation and Robustness to Adversaries	May 2019
[48]	<b>CVPR Workshop: Vision for All Seasons</b> Invited Talk: Generalizing Models to a Diverse World	May 2019
[49]	MIT Workshop: GANocracy: Workshop on Theory, Practice and Artistr	y of Deep
	Generative Modeling Invited Talk: Adversarial Domain Adaptation	April 2019
[50]	<b>CVPR Area Chairs Meeting</b> Adapting and Generalizing Across Domains	Feb 2019
[51]	National Academy of Science Workshop: Robust Machine Learning Algor Systems: Detection & Mitigation of Adversarial Attacks and Anomalies	
	Invited Talk: Domain Adaptation	Nov 2018
[52]	NeurIPS Workshop: Integration of Deep Learning Theories Invited Talk: Domain Adaptation and Multisource Generalization	Nov 2018
[53]	ICML Conference Presentation Cycle Consistent Adversarial Domain Adaptation	June 2018
[54]	Facebook AI Research Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	May 2018

[00]	<b>CVPR Workshop on Robust Vision</b> Invited Talk: Making our Models Robust to Changing Visual Environments	May
[56]	<b>CVPR Workshop on Vision with Biased or Scarce Data</b> Invited Talk: Making your data count: sharing information across domains and task	s May
[57]	<b>CVPR Tutorial on GANs</b> Invited Talk: Adversarial Domain Adaptation	May
[58]	University of Maryland, College Park Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Apr
[59]	<b>University of Virginia</b> Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Apr
[60]	Georgia Institute of Technology Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Mar
[61]	Massachussetts Institute of Technology Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Mar
[62]	University of Wisconsin, Madison Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Mar
[63]	University of North Carolina, Chapel Hill Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Mar
[64]	<b>Carnegie Melon University</b> Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Mar
[65]	University of Massachussetts Amherst Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Feb
[66]	<b>University of Chicago</b> Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Feb
[67]	<b>UC Santa Barbara</b> Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Feb
[68]	<b>New York University</b> Invited Talk: Adaptive Adversarial Learning for a Diverse Visual World	Feb
[69]	<b>Berkeley Deep Drive Symposium</b> Invited Talk: Domain adaptation: From simulation data to real world training data	Sep
[70]	<b>Qualcomm Research</b> Invited Talk: A General Framework for Domain Adversarial Learning	June
[71]	<b>OpenAI</b> Invited Talk: A General Framework for Domain Adversarial Learning	May
[72]	Berkeley Artificial Intelligence Research (BAIR) Seminar Invited Talk: A General Framework for Domain Adversarial Learning	Apr
[73]	<b>ReWork Deep Learning Summit SF</b> Invited Talk: A General Framework for Domain Adversarial Learning	Jan
[74]	Yahoo Japan Invited Talk: Deep Domain Adaptation	Mar
[75]	Sony Japan Invited Talk: Deep Domain Adaptation	Mar
[76]	Berkeley Artificial Intelligence (BAIR) Retreat Invited Talk: Adaptive Deep Learning	Mar
[77]	<b>Stanford Vision Seminar</b> Invited Talk: Adapting Deep Networks Across Domains, Modalities, and Tasks	Jan

[78]	ICCV TASK-CV Workshop Invited Talk: Adapting Deep Networks Across Domains, Modalities, and Tasks	Nov 2015
[79]	MIT Rising Stars in EECS Workshop Invited Talk: Adapting Deep Models for Visual Recognition in the Wild	Oct 2015
[80]	Amazon Computer Vision PhD Symposium Adapting Deep Networks to Real World Problems	Sep 2015
[81]	<b>Bay Area Robotics Symposium</b> Simultaneous Transfer Across Domains and Tasks	Sep 2015
[82]	Berkeley-Stanford Vision Learning Meeting Large scale recognition through adaptation	Aug 2015
[83]	<b>Daghstuhl seminar on ML with Non-identically Distributed Data</b> Invited Talk: Category Invariant Cross Modality Transfer	Apr 2015
[84]	<b>IST Austria Symposium on Computer Vision and Machine Learning</b> Invited Talk: Continuous Adaptation with Limited Target Labeled Data	Jan 2015
[85]	<b>DARPA Meeting</b> Invited Talk: Transfer of Deep Vision (and Language) models for "TOT"	Oct 2014
[86]	Baylearn LSDA: Large Scale Detection through Adaptation	Sep 2014
[87]	<b>International Conference on Learning Representation (ICLR)</b> Efficient Learning of Domain Invariant Image Representations	April 2013
[88]	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 2022ECCV 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 2021CVPR Adversarial Machine Learning in Computer Vision Workshop Organizer 2021 CVPR Learning from Limited and Imperfect Data Workshop Organizer 2021ICCV Tutorial on Learning with Limited Labels Organizer 2019Co-founder Women in Computer Vision and inagural 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 2015Co-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	

#### **Current Advising**

Daniel Bolya (PhD) NSF-GRFPAug 2019 - PresentViraj Prabhu (PhD)Prithvijit Chattopadhyay (PhD) CoC Rising Star Doctoral Research AwardAug 2019 - PresentGeorge Stoica (PhD) NSF-GRFPAug 2019 - PresentSimar Kareer (PhD)Aug 2021 - PresentPratik Ramesh (PhD) Herbert P. Haley FellowshipJan 2023 - Present

Sriram Yenamandra (MS) Sahil Khose (MS) Anisha Pal (MS) Bharat Goyal (BS/MS)

Vivek Vijaykumar (BS)Aug 2021 - PresentJakob Bjorner (BS)Presidential Undergraduate Research AwardAug 2022 - PresentBogi Ecsedi (BS)Jan 2023 - Present

#### Former Advisees

Aug 2021 - May 2023
Jan 2022 - May 2023
Jan 2022 - May 2023
Aug 2021 - May 2023
Jan 2021 - Dec 2023
Aug 2019 - May 2023
Jan 2021 - Dec 2022
Aug 2020 - May 2022

Jan 2022 - Present

Jan 2023 - Present

Jan 2023 - Present Jan 2023 - Present

Deeksha Kartik (MS) Next: PathAI Luis Bermudez (MS) Rohit Mittapalli (BS) Next: Startup Shivam Khare (MS) Next: Twitter AI	Aug 2020 - May 2022 Spring 2021 Jan 2020 - May 2021 Aug 2020 - May 2021
Arvind Krisnakumar (MS)	Jan 2020 - May 2021
Fu Lin (MS) Next: AWS Beijing	Jan 2020 - July 2020
James Hahn (MS)	Spring 2020
Hazel Jian (BS)	Fall 2020
Department Service	
School of Interactive Computing Advisory Committee	2021 - 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 1/5 lead organizers for ~10,000 submissions, 400 Area Chairs, 6000 reviewers ICCV Tutorial Chair	2023 2023
Associate Editor: IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI) International Journal on Computer Vision (IJCV)	2021,2022, 2023 2020,2021,2022
Area Chair / Senior Program Committee: IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Neural Information Processing Systems (NeurIPS) International Conference on Learning Representations (ICLR) IEEE/CVF International Conference in Computer Vision (ICCV) International Conference in Machine Learning (ICML)	$\begin{array}{c} 2019,\ 2020,\ 2021\\ 2021,\ 2023\\ 2019,\ 2020\\ 2019,2021\\ 2020 \end{array}$
Reviewer: IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI) Journal of Machine Learning Research (JMLR) IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) IEEE/CVF International Conference in Computer Vision (ICCV) European Conference in Computer Vision (ECCV) Neural Information Processing Systems (NeurIPS) International Conference on Learning Representations (ICLR) International Conference in Machine Learning (ICML) IEEE International Conference on Robotics and Automation (ICRA) IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	$\begin{array}{c} 2013\text{-}2017\\ 2013\text{-}2017\\ 2014\text{-}2018\\ 2015\text{,}2017\text{,}2019\\ 2016\text{,}2018\text{,}2020\\ 2016\text{-}2018\\ 2018\\ 2017\text{-}2019\\ 2014\text{-}2019\\ 2014\text{-}2016\end{array}$

TEACHINGGeorgia Institute of TechnologyEXPERIENCEInstructor

Atlanta, GA January 2023 - May 2023 CS 4476 Introduction to Computer Vision

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

**Georgia Insitute of Technology** Instructor CS 4476 Introduction to Computer Vision

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

**Georgia Insitute of Technology** Instructor CS 4476 Introduction to Computer Vision

Georgia Insitute of Technology Instructor

CS 4476/6476 Introduction to Computer Vision

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

### University of California Berkeley

Teaching Assistant CS 188: Introduction to Artificial Intelligence.

**University of California Berkeley** *Teaching Assistant* EE 20N: Introduction to Signals and Systems. Atlanta, GA August 2022 - December 2022

> Atlanta, GA January 2022 - April 2022

Atlanta, GA August 2021 - December 2021

> Atlanta, GA January 2021 - April 2021

> Atlanta, GA January 2020 - April 2020

Atlanta, GA August 2019 - December 2019

> Berkeley, CA January 2013 - May 2013

Berkeley, CA August 2009 - December 2009