Contact Information	Berkeley AI Research ( <i>BAIR</i> ) University of California, Berkeley Berkeley, CA 94720 USA	<i>E-mail:</i> jhoffman@eecs.berkeley.edu <i>Website:</i> www.eecs.berkeley.edu/~jhoffman	
Research Interests	My research lies at the intersection of a logorithms which facilitate the transfer model adaptation and generalization. My ments and tasks, enabling learning syster human supervision.	computer vision and machine learning. I develop learning of information through unsupervised and semi-supervised y work reuses and shares information across visual environ- ns to tackle real-world variation and scale while minimizing	
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 Engine Graduated with Department Honors Advised by Ken Goldberg	ering and Computer Science Honors Program	
Book Chapters	<ol> <li>Judy Hoffman, Eric Tzeng, Trevor Darrell, Kate Saenko. "Simultaneous Transfer Across Domains and Tasks" In <i>Domain Adaptation in Computer Vision Applications</i>, Springer, 173- 187, 2017.</li> </ol>		
Journal Publications	[2] Judy Hoffman, Deepak Pathak, Eric Tzeng, Jonathan Long, Sergio Guadarrama, Trevor Dar- rell, and Kate Saenko. "Large Scale Visual Recognition through Adaptation using Joint Rep- resentation and Multiple Instance Learning", <i>Journal of Machine Learning Research (JMLR)</i> , <i>Special Issue on Multi Task Learning</i> , 2016.		
	<ul> <li>[3] 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.</li> </ul>		
Conference Publications	[4] Judy Hoffman, Eric Tzeng, Taesung Park, Jun-Yan Yu, Phillip Isola, Kate Saenko, Alexei Efros, Trevor Darrell. "Adapting Images and Representations with Domain Adversarial Learning", International Conference in Machine Learning (ICML), 2018.		
	[5] 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.		
	[6] Zelun Luo, Yuliang Zou, Judy Hoff Representations across Domains and 2017.	man, Li Fei-Fei. "Label Efficient Learning of Transferable I Tasks", <i>Neural Information Processing Systems (NIPS)</i> ,	
	[7] Timnit Gebru, <b>Judy Hoffman</b> , Li Fe Domain Adaptation Approach ", <i>Int</i>	ei-Fei, "Fine-grained Recognition in the Wild: A Multi-Task ernational Conference in Computer Vision (ICCV), 2017.	

- [8] 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)
- [9] Eric Tzeng, Judy Hoffman, Kate Saenko, Trevor Darrell. "Adversarial Discriminative Domain Adaptation", In Proc. Computer Vision and Pattern Recognition (CVPR), Hawaii, USA, 2017.
- [10] 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)
- [11] Saurabh Gupta, Judy Hoffman, Jitendra Malik. "Cross Modal Distillation for Supervision Transfer", In Proc. Computer Vision and Pattern Recognition (CVPR), Las Vegas, USA, 2016.
- [12] Eric Tzeng\*, Coline Devin\*, Judy Hoffman, Chelsea Finn, Pieter Abbeel, Sergey Levine, Kate Saenko, Trevor Darrell. "Adapting deep visuomotor representations with weak pairwise constraints", International Workshop on the Algorithmic Foundations of Robotics (WAFR), 2016.
- [13] Xingchao Peng, Judy Hoffman, Stella Yu, Kate Saenko. "Fine-to-coarse Knowledge Transfer For Low-Res Image Classification". International Conference on Image Processing, 2016.
- [14] 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.
- [15] 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
- [16] 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.
- [17] 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.
- [18] 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.
- [19] 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.
- [20] 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.
- [21] 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.
- [22] 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)
- [23] 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.
- [24] 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.

- [25] 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
- [26] Andreea Bobu, Eric Tzeng, Judy Hoffman, Trevor Darrell. "Adapting to Continuously Shifting Domains", International Conference on Learning Representations (ICLR) Workshops, 2018.
- [27] Evan Shelhamer\*, Kate Rakelly\*, Judy Hoffman\*, Trevor Darrell. "Clockwork Convnets for Video Semantic Segmentation." Workshop on Video Segmentation hosted at ECCV, 2016.
- [28] 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.
- [29] 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.
- [30] 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.
- [31] 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.
- [32] 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)
- [33] 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
- [34] 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.

Honors and	Rising Stars in EECS	Fall 2015
Awards	National Science Foundation Graduate Research Fellowship	2012-2015
	Rosetta Stone Ltd Grace Hopper Scholarship	August 2012
	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	August 2007 - May 2008
	Edward Frank Kraft Award	January 2007

Academic Talks	Domain adaptation: From simulation data to real world training data Berkeley Deep Drive Symposium	2017
	A Conoral Framework for Domain Adversarial Learning	-011
	OpenAI	2017
	Qualcomm Research	2017
	Berkeley Artifical Intelligence Research (BAIR) Seminar	2017
	Invited Talk: WeWork Deep Learning Summit, San Francisco, CA	2017
	Adaptive Deep Learning Berkeley Artificial Intelligence Research Lab Spring Retreat	2016
	<b>Deep Domain Adaptation</b> Sony Japan and Deep Learning Seminar, Yahoo Japan	2016
	Adapting Deep Networks Across Domains, Modalities, and Tasks	
	Stanford Vision Seminar	2016
	Invited Talk at TASK-CV Workshop (ICCV)	2015
	Adapting Deep Models for Visual Recognition in the Wild MIT EECS Rising stars workshop talk	2015
	Simultaneous Transfer Across Domains and Tasks	
	Bay Area Robotics Symposium, Berkeley, USA	2015
	Adapting Deep Networks to Beal World Problems	
	Amazon Computer Vision PhD Symposium, Seattle, USA	2015
	Large scale recognition through adaptation Berkeley-Stanford vision learning meeting, Berkeley, USA	2015
	Continuous Adaptation with Limited Target Labeled Data IST Austria Symposium on Computer Vision and Machine Learning, Vienna, Austria	2015
	Category Invariant Cross Modality Transfer Daghstuhl seminar ML with Non-identically Distributed Data, Schloss Dagstuhl, Germany	2015
	<b>Transfer of Deep Vision (and Language) models for "TOT"</b> DARPA meeting invited talk	2014
	LSDA: Large Scale Detection through Adaptation Baylearn, Berkeley, USA	2014
	Efficient Learning of Domain Invariant Image Representations International Conference on Learning Representations, Arizona, USA	2013
	<b>Discovering Latent Domains for Multisource Domain Adaptation</b> Women in Machine Learning Workshop, Tahoe, USA	2012
Service & Leadership	<b>ICCV Workshop and Challenge Organizer:</b> TASK-CV Workshop and Domain Adaptation Challenge	2017
	NIPS Workshop Organizer: Transfer and Multi-task Learning	2015
	<b>CVPR Workshop Chair: Women in Computer Vision Workshop</b> Organized the first research-based mentoring workshop at CVPR	2015
	Graduate Admissions: UC Berkeley       20         Reviewed applications for AI research area	14-2015
	Student Leader: Computer science graduate student association UC Berkeley 20	13-2014
	Outreach and diversity officer for the general computer science graduate student population	10-2014 1.

	<b>Student Leader:</b> Women in computer science and engineering, UC Berkeley 2012 Co-president of the graduate women in computer science. Led outreach, mentoring, and constudent support efforts.	-2013 urrent
	Workshop Organizer at Grace Hopper Conference for Women in Computing Fall Organized workshop – "What I wish I knew when applying to graduate school"	2012
	Mentoring: EECS Peers, UC Berkeley       Fall 2013 - Fall         Available as a drop-in mentor for graduate students in electrical engineering and computer sci	2016 2016
	Mentoring: Personal mentor for 2-4 undergrad/grad women per year Fall 2010 -	2016
	Reviewer: ECCV, CVPR, ICCV, NIPS, ICRA, ICML, ICLR, IROS, PAMI, JMLR, PAA	
Research Experience	University of California Berkeley Berkeley Postdoctoral Researcher June 2017 - pr Collaborating with Alyosha Efros, Trevor Darrell, and the BAIR lab on lifelong and contin learning problems with limited human supervision.	y, CA resent nuous
	Stanford University       Palo Alte         Postdoctoral Researcher       August 2016 - May         Collaborating with Fei-Fei Li and the AI Research lab on large scale recognition, transfer lear         and deep learning applied at the intersection of vision, robotics, and language.	o, CA • 2017 rning,
	University of California BerkeleyBerkeleyGraduate Student Researcher advised by Trevor DarrellFebruary 2011 - AugustResearching domain adaptation, deep learning, and object recognition algorithms.February 2011 - August	y, CA 2016
	University of California Berkeley Berkeley Berkeley Research Assistant with Ken Goldberg March 2008 - January Worked in the Automation Science Lab to develop robotic motion planning algorithms and mated medical imaging analysis.	y, CA 2011 auto-
Teaching Experience	University of California Berkeley Teaching AssistantBerkeley January 2013 - May Berkeley and developing the local and global website.• CS 188: Introduction to Artificial Intelligence.	y, CA 2013 xams,
	University of California BerkeleyBerkeleyTeaching AssistantAugust 2009 - DecemberResponsibilities included teaching discussion section 1 hour/week, teaching a lab section 3 hoursand grading exams.• EE 20N: Introduction to Signals and Systems.	y, CA • 2009 /week,
	University of California BerkeleyBerkeleyLab AssistantJanuary 2008 - MayResponsibilities included answering students questions and helping grade lab assignments.	y, CA • 2008

• CS 61A: Structure and Interpretation of Computer Programs

INDUSTRYGoogle Inc.Mountain View, CAEXPERIENCESoftware Engineering Intern, PhDMay 15, 2012 - August 10, 2012Working with the Machine Perception team at Google Research, Mountain View.