Carl Vondrick

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Appointments

1.	Columbia University	Assistant Professor	Jul 2018 - Present		
2.	Google Research	Research Scientist	Jul 2017 - Jul 2018		
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Ed	Education				
1.	Massachusetts Institute of Technology	Ph.D. in Computer Science	Sep 2013 - Jun 2017		
2.	Massachusetts Institute of Technology	M.S. in Computer Science	Sep 2011 - Jun 2013		
3.	University of California, Irvine	B.S. in Computer Science	Sep 2008 - Jun 2011		

3. University of California, Irvine B.S. in Computer Science

Journal Publications (peer reviewed)

- 1. Moments in Time Dataset: one million videos for event understanding Mathew Monfort, et al. Transactions on Pattern Analysis and Machine Intelligence (PAMI). 2019.
- 2. Cross-Modal Scene Networks. Yusuf Aytar, Lluis Castrejon, Carl Vondrick, Hamed Pirsiavash, Antonio Torralba. Transactions on Pattern Analysis and Machine Intelligence (PAMI). 2017.
- 3. Visualizing Object Detection Features. Carl Vondrick, Aditya Khosla, Hamed Pirsiavash, Tomasz Malisiewicz, Antonio Torralba. International Journal of Computer Vision (IJCV). 2016.

4. Do we need more training data? Xiangxin Zhu, Carl Vondrick, Charless Fowlkes, Deva Ramanan. International Journal of Computer Vision (IJCV). 2015.

5. Efficiently Scaling Up Crowdsourced Video Annotation. Carl Vondrick, Donald Patterson, Deva Ramanan. International Journal of Computer Vision (IJCV). 2012.

Conference Publications (peer reviewed)

- 1. Relational Action Forecasting Chen Sun, Abhinav Shrivastava, Carl Vondrick, Rahul Sukthankar, Kevin Murphy, Cordelia Schmid. Computer Vision and Pattern Recognition (CVPR). 2019.
- 2. Multi-level Multimodal Common Semantic Space for Image-Phrase Grounding. Hassan Akbari, Svebor Karaman, Surabhi Bhargava, Brian Chen, Carl Vondrick, Shih-Fu Chang.

Computer Vision and Pattern Recognition (CVPR) 2019.

- Tracking Emerges by Colorizing Videos.
 Carl Vondrick, Abhinav Shrivastava, Alireza Fathi, Sergio Guadarrama, Kevin Murphy. European Conference on Computer Vision (ECCV). 2018.
- The Sound of Pixels.
 Hang Zhao, Chuang Gan, Andrew Rouditchenko, Carl Vondrick, Josh McDermott, Antonio Torralba.
 European Conference on Computer Vision (ECCV). 2018.
- Actor-centric Relation Network. Chen Sun, Abhinav Shrivastava, Carl Vondrick, Kevin Murphy, Rahul Sukthankar, Cordelia Schmid. European Conference on Computer Vision (ECCV). 2018.
- AVA: A Video Dataset of Spatio-temporally Localized Atomic Visual Actions. Chunhui Gu, et al. Computer Vision and Pattern Recognition (CVPR). 2018.
- Following Gaze in Video. Adria Recasens, Carl Vondrick, Aditya Khosla, Antonio Torralba. International Conference on Computer Vision (ICCV). 2017.
- Generating the Future with Adversarial Transformers. Carl Vondrick, Antonio Torralba. Computer Vision and Pattern Recognition (CVPR). 2017.
- Generating Videos with Scene Dynamics. Carl Vondrick, Hamed Pirsiavash, Antonio Torralba. Neural Information Processing Systems (NIPS). 2016.
- SoundNet: Learning Sound Representations from Unlabeled Video. Carl Vondrick, Yusuf Aytar, Antonio Torralba. Neural Information Processing Systems (NIPS). 2016.
- Anticipating Visual Representations with Unlabeled Video. Carl Vondrick, Hamed Pirsiavash, Antonio Torralba. Computer Vision and Pattern Recognition (CVPR). 2016.
- Predicting Motivations Behind Actions by Leveraging Text. Carl Vondrick, Deniz Oktay, Hamed Pirsiavash, Antonio Torralba. Computer Vision and Pattern Recognition (CVPR). 2016.
- Learning Aligned Cross-Modal Representations from Weakly Aligned Data. Lluis Castrejon, Yusuf Aytar, Carl Vondrick, Hamed Pirsiavash, Antonio Torralba. Computer Vision and Pattern Recognition (CVPR). 2016.
- Learning Visual Biases from Human Imagination. Carl Vondrick, Hamed Pirsiavash, Aude Oliva, Antonio Torralba. Neural Information Processing Systems (NIPS). 2015.

- Where are they looking? Adria Recasens, Aditya Khosla, Carl Vondrick, Antonio Torralba. Neural Information Processing Systems (NIPS). 2015.
- Assessing the Quality of Actions. Hamed Pirsiavash, Carl Vondrick, Antonio Torralba. European Conference on Computer Vision (ECCV). 2014.
- HOGgles: Visualizing Object Detection Features. Carl Vondrick, Aditya Khosla, Tomasz Malisiewicz, Antonio Torralba. International Conference on Computer Vision (ICCV). 2013.
- Do We Need More Training Data or Better Models for Object Detection? Xiangxin Zhu, Carl Vondrick, Deva Ramanan, Charless Fowlkes. British Machine Vision Conference (BMVC). 2012.
- Video Annotation and Tracking with Active Learning. Carl Vondrick and Deva Ramanan. Neural Information Processing Systems (NIPS). 2011.
- A Large-scale Benchmark Dataset for Event Recognition in Surveillance Video. Sangmin Oh, et al. Computer Vision and Pattern Recognition (CVPR). 2011.
- Efficiently Scaling Up Video Annotation with Crowdsourced Marketplaces. Carl Vondrick, Deva Ramanan, Donald Patterson. European Conference on Computer Vision (ECCV). 2010.

Technical Reports

 See, Hear, and Read: Deep Aligned Representations Yusuf Aytar, Carl Vondrick, Antonio Torralba. arXiv. 2017.

Selected Awards and Honors

2.	Google Ph.D Fellowship in Machine Perception	2015 - 2017
3.	National Science Foundation Graduate Fellowship	2011 - 2014
4.	Outstanding Reviewer Award for ECCV, CVPR	2015 - 2016
5.	UCI Chancellor's Award for Undergraduate Research	2011

Selected Press Coverage

Television and Radio

- 1. NPR Algorithms Identify Audio through Video Footage
- 2. NPR Computer Binge-Watched TV And Learned To Predict
- 3. CNN New AI Can Predict When Two People Will Kiss
- 4. CBC Teaching Software to Predict Handshakes, Hugs, and Kisses
- 5. Stephen Colbert Television clip on human action prediction

Newspaper and Magazine

6. Associated Press	How Do You Teach Human Interaction to a Robot? Lots of TV
7. NBC	Deep Learning: Teaching Computers to Predict the Future
8. Newsweek	Artificial Intelligence Algorithms Predicts the Future
9. Forbes	MIT Computers Binge-Watch To Learn About Hugs
10. ABC News	New AI Can Predict When Two People Will Kiss
11. Fox News	New Artificial Intelligence Can Predict When You Will Kiss
12. Wired	This AI learned to predict the future by watching loads of TV
13. Popular Science	Algorithm Binge Watches TV to Predict Human Behavior
14. Scientific American	Artificial Intelligence Can Predict How Scenes Will Play Out
15. New Scientist	Binge-watching videos teaches computers to recognise sounds
16. New Scientist	AI learns to predict the future by watching 2 million videos
17. Vice Magazine	This Algorithm Taught Itself to Animate a Still Photo
18. The Verge	Machine Learning's Next Trick is Generating Videos from Photos
19. The Week Junior	A machine that learns by listening (children's magazine)
20. Technology Review	Image Experiment Reveals The Building Blocks of Imagination

Invited Talks

Learning from Unlabeled Video		
1. Butterfly Network	Nov 2018	
2. International Computer Vision Summer School	Jul 2018	
3. CVPR Tutorial	Jun 2018	
Predictive Vision		
4. University of Maryland, College Park	Mar 2018	
5. University of Pennsylvania	Nov 2017	
6. Snapchat Research	Nov 2017	
7. University of Southern California	Nov 2017	
8. Workshop on Video Frontiers	Nov 2017	
9. Rework Summit	May 2017	
10. University of California, San Deigo	Apr 2017	
11. Cornell University	Apr 2017	
12. University of Texas, Austin	Mar 2017	
13. Columbia University	Mar 2017	
14. Google Research	Mar 2017	
15. Adobe Research	Mar 2017	
16. OpenAI	Mar 2017	
17. Brown University	Feb 2017	
18. University of California, Los Angeles	Feb 2017	
19. NVidia	Feb 2017	
20. Rework Summit	Nov 2016	
21. Twitter	Oct 2016	
22. TTI Chicago	Sep 2016	

	Massachusetts Institute of Technology	Sep 2016
	Apple	Aug 2016
	University of California, Berkeley	Aug 2016
	Stanford University	Aug 2016
	Boston University	Mar 2016
28.	University of Massachusetts, Boston	Mar 2016
Visi	ualizing Object Detection Features	
29.	University of Massachusetts, Boston	Mar 2016
30.	Massachusetts Institute of Technology	Sep 2015
31.	Brown University	Nov 2013
Effi	cient Video Annotation	
32.	CVPR Workshop	Jun 2013
33.	CVPR Workshop	Jun 2011
Tea	ching	
1.	E6998 Advanced Computer Vision, Columbia Engineering	Spring 2019
2.	W4731 Computer Vision, Columbia Engineering	Fall 2018
Pro	ofessional Service	
1.	Senior Program Committee (Area Chair), NeurIPS 2019	
2.	Senior Program Committee (Area Chair), CVPR 2019	
3.	Senior Program Committee (Area Chair), ICML 2019	
4.	Senior Program Committee (Area Chair), CVPR 2018	
5.	Organizer, Workshop on Self-supervised Learning, ICML 2019	
6.	Organizer, Workshop on Learning from Unlabeled Video, CVPR 2019	
7.	Organizer, Tutorial on Unsupervised Visual Learning, CVPR 2018	
8.	Program Committee, Action and Anticipation Workshop, CVPR 2016	
9.	Program Committee, Action and Anticipation Workshop, CVPR 2017	
10.	Program Committee, Action and Anticipation Workshop, CVPR 2018	
	Program Committee, Workshop on Human Computation for Image Analysis, C	VPR 2016
	Reviewer for CVPR, ICCV, ECCV, NIPS, ICML, IJCV, PAMI, 2011 to 2019	
Der	partmental Service	
-	Admissions Committee	2019

1.	Admissions Committee	2019
2.	Distinguished Lectures Committee	2018