
Kris M. Kitani

Associate Research Professor

A. PROFESSIONAL PREPARATION

University of Southern California	Los Angeles, CA	Electrical Engineering	BS	1999
The University of Tokyo	Tokyo, Japan	Info. Science and Tech.	MS	2005
The University of Tokyo	Tokyo, Japan	Info. Science and Tech.	PhD	2008
Carnegie Mellon University	Pittsburgh, PA	Computer Vision	Postdoc	2011-2013

B. APPOINTMENTS

2019 -	Associate Research Professor	Carnegie Mellon University, USA
2018 -	MSCV Program Director	Carnegie Mellon University
2016 - 2019	Assistant Research Professor	Carnegie Mellon University
2013 - 2016	Systems Scientist	Carnegie Mellon University
2011 - 2013	Postdoctoral Research Fellow	Carnegie Mellon University
2010 -	Cooperative Research Fellow	The University of Tokyo
2010	Visiting Scholar	University of California at San Diego
2008 - 2011	Research Associate	University of Electro-Communications
2000 - 2003	Applications Engineer	KLA-Tencor

C. PRODUCTS (PUBLICATIONS)

Related Publications

1. Mariko Isogawa, Ye Yuan, Matthew O'Toole, Kris Kitani. Optical Non-Line-of-Sight Physics-based 3D Human Pose Estimation. Conference on Computer Vision and Pattern Recognition (CVPR) 2020.
2. Jiaqi Guan, Ye Yuan, Kris M Kitani, Nicholas Rhinehart. Generative Hybrid Representations for Activity Forecasting with No-regret Learning. Conference on Computer Vision and Pattern Recognition (CVPR) 2020.
3. Xinshuo Weng, Yongxin Wang, Yunze Man, Kris Kitani. GNN3DMOT: Graph Neural Network for 3D Multi-Object Tracking with 2D-3D Multi-Feature Learning. Conference on Computer Vision and Pattern Recognition (CVPR) 2020.
4. Ye Yuan, Kris Kitani. Ego-Pose Estimation and Forecasting as Real-Time PD Control. International Conference on Computer Vision (ICCV) 2019.
5. Nicholas Rhinehart, Rowan McAllister, Kris M. Kitani, Sergey Levine. PRECOG: PREdiction Conditioned On Goals in Visual Multi-Agent Settings. International Conference on Computer Vision (ICCV) 2019.

Significant Publications

1. Cole Gleason, Amy Pavel, Emma McCamey, Christina Low, Patrick Carrington, Kris M Kitani, Jeffrey P Bigham. Twitter A11y: A Browser Extension to Make Twitter Images Accessible. Conference on Human Factors in Computing Systems (CHI) 2020. [[Best Paper Honorable Mention](#)]
2. Nicholas Rhinehart, Kris M. Kitani. First-Person Forecasting with Online Inverse Reinforcement Learning. International Conference on Computer Vision (ICCV) 2017. [[Marr Prize Honorable Mention](#)]

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3. Hernisa Kacorri, Kris M. Kitani, Jeff Bigham, Chieko Asakawa. People with Visual Impairment Training Personal Object Recognizers: Feasibility and Challenges. Conference on Human Factors in Computing Systems (CHI) 2017. [[Best Paper Honorable Mention](#)]
 4. Dragan Ahmetovic, Masayuki Murata, Cole Gleason, Erin Brady, Hironobu Takagi, Kris Kitani and Chieko Asakawa. Achieving Practical and Accurate Indoor Navigation for People with Visual Impairments. Conference on Web For All 2017. [[Best Technical Paper](#)]
 5. Kris M. Kitani, Brian Ziebart, James A. Bagnell and Martial Hebert. Activity Forecasting. European Conference on Computer Vision (ECCV 2012), Oct 2012. [[Best Paper Honorable Mention](#)]

D. Synergistic Activities

1. **Workshop Organizer:** Organized various workshops to propagate and share new research ideas to the greater research community. (Workshop on Egocentric (First-Person) Vision at CVPR 2014, 2016; Workshop on Wearable and Ego-Vision Systems for Augmented Experience at ICME 2015.)
2. **Associate Editor:** Support the ego-centric vision research community through special edition journals. IEEE Transactions on Human-Machine Systems. Special Issue on Wearable and Ego-vision Systems for Augmented Experience 2016.
3. **Program Development:** Currently directing a professional preparation graduate school program to prepare students to become productive engineers in the area of computer vision. Development of hybrid program that helps students to understand modern day challenges in industry while also allowing students to get exposure to state-of-the-art research technology. Development of new curriculum to strengthen both technical skills and communication skills.
4. **Large-scale Mobile Camera Database:** Working together with multiple universities and industrial partner to develop a large-scale video dataset of wearable camera video. The final dataset will contain over 10,000 hours of video (1000× bigger than currently available datasets) and over 1000 unique individuals (100× bigger than currently available datasets).