

Angjoo Kanazawa

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EDUCATION

University of Maryland, College Park, USA July 2017
PhD., Computer Science
Thesis: Single-View 3D Reconstruction of Animals
Advisor: David Jacobs

New York University, USA May 2011
BA., Computer Science and Mathematics
Magna Cum Laude
Advisor: Rob Fergus

ACADEMIC POSITION

University of California, Berkeley, USA September 2017-Current
Postdoctoral Scholar
Advisor: Jitendra Malik, Alexei A. Efros, Trevor Darrell

PUBLICATIONS

Journal publications

- [1] SFV: Reinforcement Learning of Physical Skills from Video
Xue Bin Peng, **Angjoo Kanazawa**, Jitendra Malik, Pieter Abbeel, Sergey Levine
ACM Transactions on Graphics, Vol. 37(6), 2018 (ACM SIGGRAPH ASIA 2018 issue)
- [2] Learning 3D Articulation and Deformation using 2D Images
Angjoo Kanazawa, Shahar Kovalsky, Ronen Basri, David Jacobs.
Computer Graphics Forum, Vol. 35(2), 2016 (EUROGRAPHICS 2016 issue)
Best Paper Award at EUROGRAPHICS 2016

Conference publications

- [1] Variational Discriminator Bottleneck: Improving Imitation Learning, Inverse RL, and GANs by Constraining Information Flow
Xue Bin Peng, **Angjoo Kanazawa**, Sam Toyer, Pieter Abbeel, Sergey Levine
International Conference on Representation Learning (ICLR) 2019
- [2] Learning Category-Specific Mesh Reconstruction from Image Collections
Angjoo Kanazawa*, Shubham Tulsiani*, Alexei A. Efros, Jitendra Malik.
(* equal contribution) *European Conference in Computer Vision (ECCV)*, 2018

- [3] End-to-end Recovery of Human Shape and Pose
Angjoo Kanazawa, Michael J. Black, David W. Jacobs, Jitendra Malik.
Computer Vision and Pattern Recognition (CVPR), 2018
- [4] SfSNet: Learning Shape, Reflectance and Illuminance of Faces ‘in the wild’
 Soumyadip Sengupta, **Angjoo Kanazawa**, Carlos D. Castillo, David W. Jacobs.
Computer Vision and Pattern Recognition (CVPR), 2018 (Spotlight)
- [5] Lions and Tigers and Bears: Capturing non-rigid, 3D, articulated shape from images
 Silvia Zuffi, **Angjoo Kanazawa**, Michael J. Black.
Computer Vision and Pattern Recognition (CVPR), 2018 (Spotlight)
- [6] Towards Accurate Marker-less Human Shape and Pose Estimation over Time
 Yinghao Huang, Federica Bogo, Christoph Lassner, **Angjoo Kanazawa**, Peter V. Gehler,
 Javier Romero, Ijaz Akhter, Michael J. Black.
International Conference on 3D Vision (3DV), 2017
- [7] 3D Menagerie: Modeling the 3D Shape and Pose of Animals
 Silvia Zuffi, **Angjoo Kanazawa**, David Jacobs, Michael J. Black.
Computer Vision and Pattern Recognition (CVPR), 2017
- [8] Keep it SMPL: Automatic Estimation of 3D Human Pose and Shape from a Single Image
 Federica Bogo*, **Angjoo Kanazawa***, Christoph Lassner, Peter Gehler, Javier Romero,
 Michael J. Black (* equal contribution).
European Conference in Computer Vision (ECCV), 2016
- [9] WarpNet: Weakly Supervised Matching for Single-View Reconstruction
Angjoo Kanazawa, David Jacobs, Manmohan Chandraker.
Computer Vision and Pattern Recognition (CVPR), 2016
- [10] Dog Breed Classification using Part Localization
 Jiongxin Liu, **Angjoo Kanazawa**, Peter Belhumeur, David Jacobs.
European Conference in Computer Vision (ECCV), 2012

Workshop publications

- [1] Variational Discriminator Bottleneck: Improving Imitation Learning, Inverse RL, and GANs
 by Constraining Information Flow
 Xue Bin Peng, **Angjoo Kanazawa**, Sam Toyer, Pieter Abbeel, Sergey Levine
Deep Reinforcement Learning Workshop, NeurIPS 2018
- [2] Locally Scale-invariant Convolutional Neural Network
Angjoo Kanazawa, Abhishek Sharma, David Jacobs.
Deep Learning and Representation Learning Workshop: NeurIPS 2014
- [3] Affordance of Object Parts from Geometric Features
 Austin Myers, **Angjoo Kanazawa**, Cornelia Fermuller, Yiannis Aloimonos.
RGB-D: Advanced Reasoning with Depth Cameras: RSS 2014
Vision Meets Cognition Workshop: CVPR 2014

Pre-print

- [1] Learning 3D Human Dynamics from Video
Angjoo Kanazawa*, Jason Zhang*, Panna Felsen*, Jitendra Malik (* equal contribution).
arXiv:1812.01601 [cs.CV]

Awards and Honors

Rising Stars in EECS	2018
Best Contributed Paper Award	2018
Rank Prize Symposium on Geometry and Uncertainty in Deep Learning for Computer Vision	
Best Paper Award, EUROGRAPHICS	2016
Summer Research Fellowship, University of Maryland, College Park	2013
Google Anita Borg Memorial Scholarship	2011
Computer Science Prize for Academic Excellence and Service to the Department	2011
New York University	

Invited Talks

- [1] Perceiving and Imitating 3D Humans in-the-wild
MIT, hosted by Phillip Isola 2018
- [2] Perceiving 3D Humans in-the-wild
Stanford University, hosted by Scott Delp 2018
Oxford University, hosted by Andrew Zisserman 2018
Rank Prize Symposium, hosted by Roberto Cipolla
[Best contributed paper award] 2018
- [3] Birds of a Feather: Learning Correspondence, Pose, and Shape Together
Workshop on Fine-Grained Visual Categorization, CVPR 2018 2018
- [4] Solving Inverse Graphics Problems in-the-wild
University of Pennsylvania, hosted by Jianbo Shi 2018
- [5] Single-view Reconstruction of Animals
University of California, San Diego, hosted by Manmohan Chandraker 2018
University of California, Berkeley, hosted by Trevor Darrell 2017
Stanford University, hosted by Silvio Savarese 2017
NEC Labs America, hosted by Manmohan Chandraker 2017
Adobe Research 2017
Oculus Research 2017
Facebook 2017
- [6] Learning 3D Articulation and Deformation from 2D Images
Max Planck Institute for Intelligent Systems, hosted by Michael Black 2016
Waseda University, hosted by Shigeo Morishima 2016
- [7] Dog Breed Classification using Part Localization 2013
7th International Workshop on Robust Computer Vision (IWRCV)
Osaka University, hosted by Ko Nishino

Service and Professional Activities

- [1] **ECCV Workshop Organizer:** Women in Computer Vision 2018
- [2] **Graduate Admissions,** UC Berkeley 2018
- [3] **Mentoring** EECS Peers, UC Berkeley 2018
- [4] **Organizer Computer Vision Student Seminar** 2012-2015
University of Maryland, College Park
- [5] **President of Women in Computing,** New York University 2009-2011
- [6] **Vice President of ACM,** New York University 2010-2011
- [7] **Reviewer:** CVPR, ICCV, ECCV, NIPS, 3DV, CVIU, ICRA

Teaching

- [1] **Guest Lecturer,** UC Berkeley Spring 2018
CS280 Foundations of Computer Vision
- [2] **Teaching Assistant,** University of Maryland, College Park Fall 2016
CMSC828L Deep Learning
- [3] **Teaching Assistant,** University of Maryland, College Park Spring 2012
CMSC421 Introduction to Artificial Intelligence
- [4] **Teaching Assistant,** University of Maryland, College Park Fall 2011
CMSC131 Object-Oriented Programming I
- [5] **Teaching Assistant,** New York University
CSCI-UA.0101 Introduction to Computer Science I Fall 2008
CSCI-UA.0103 Introduction to Computer Science II Spring 2009

Research Internships

- Max Planck Institute for Intelligent Systems,** Germany 2016
Advisor: Michael Black
- NEC Labs America,** USA 2015
Advisor: Manmohan Chandraker
- Columbia University,** USA 2012
Advisor: Peter Belhumeur

Industry Experience

- Consultant,** Companion Labs, USA 2018
- Google X** Self-Driving Car team, USA 2014
Software Engineering Intern
- Goldman Sachs,** USA 2010
Technology Summer Analyst

New York University, Wagner School of Public Service, USA

2009-2010

Web Developer

Industry Next, LLC, USA

2009

Software Engineer Intern

References

David W. Jacobs (Thesis Advisor)

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University of Maryland, College Park
College Park, MD 20742

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Andrew Fitzgibbon

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