Angjoo Kanazawa

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Areas of Expertise

Kanazawa's research focuses on reconstructing non-rigid objects such as people and animals as well as their environment from everyday images and video. She developed a deep learning based approach for 3D Human Mesh Recovery (HMR) from a single image and videos. Her research also focuses on how to train such models with minimal supervision in dynamic, uncontrolled environments with visual feedback.

Academic and Research Employment

Assistant Professor, EECS, University of California, Berkeley — July 2020–

Research Scientist, Google Research — September 2019-

Postdoctoral Scholar, EECS, University of California, Berkeley — 2017-2019

Research Assistant, University of Maryland — 2011–2017

Education

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

M.S., Computer Science, University of Maryland, College Park, USA — July 2013

BA., Computer Science and Mathematics, New York University, USA — May 2011
Magna Cum Laude

Publications in Reverse Chronological Order

1. J. Y. Zhang*, S. Pepose*, H. Joo, D. Ramanan, J. Malik, A. Kanazawa (*equal contribution). Perceiving 3D Human-Object Spatial Arrangements from a Single Image in the Wild. In *European Conference in Computer Vision (ECCV)*, 2020
2. S. Goel, A. Kanazawa, J. Malik, Shape and Viewpoint without Keypoints. In *European Conference in Computer Vision (ECCV)*, 2020
3. S. Zuffi, A. Kanazawa, T. Berger-Wolf, M. J. Black. Three-D Safari: Learning to Estimate Zebra Pose, Shape, and Texture from Images "In the Wild". In *International Conference on Computer Vision (ICCV)*, 2019
4. S. Saito*, Z. Huang*, R. Natsume*, S. Morishima, A. Kanazawa, H. Li (*equal contribution). PIFu: Pixel-Aligned Implicit Function for High-Resolution Clothed Human Digitization. In

International Conference on Computer Vision (ICCV), 2019

5. J. Y. Zhang, P. Felsen, A. Kanazawa J. Malik. Predicting 3D Human Dynamics from Video. In *International Conference on Computer Vision (ICCV)*, 2019
6. A. Kanazawa*, J. Y. Zhang*, P. Felsen*, J. Malik (*equal contribution). Learning 3D Human Dynamics from Video. In *Computer Vision and Pattern Recognition (CVPR)*, 2019
7. X. Peng, A. Kanazawa, J. Malik, P. Abbeel, S. Levine, SFV: Reinforcement Learning of Physical Skills from Video. In *ACM Transactions on Graphics, (ACM SIGGRAPH ASIA 2018 issue)*, Vol. 37(6), 2018
8. A. Kanazawa*, S. Tulsiani*, A. A. Efros, J. Malik (*equal contribution). Learning Category-Specific Mesh Reconstruction from Image Collections. In *European Conference in Computer Vision (ECCV)*, 2018
9. A. Kanazawa, M. J. Black, D. W. Jacobs, J. Malik. End-to-end Recovery of Human Shape and Pose. In *Computer Vision and Pattern Recognition (CVPR)*, 2018
10. S. Sengupta, A. Kanazawa, C. D. Castillo, D. W. Jacobs. SfSNet: Learning Shape, Reflectance and Illuminance of Faces 'in the wild'. In *Computer Vision and Pattern Recognition (CVPR)* 2018
11. S. Zuffi, A. Kanazawa, M. J. Black. Lions and Tigers and Bears: Capturing non-rigid, 3D, articulated shape from images. In *Computer Vision and Pattern Recognition (CVPR)*, 2018
12. Y. Huang, F. Bogo, C. Lassner, A. Kanazawa, P. V. Gehler, J. Romero, I. Akhter, M. J. Black. Towards Accurate Marker-less Human Shape and Pose Estimation over Time. In *International Conference on 3D Vision (3DV)*, 2017
13. S. Zuffi, A. Kanazawa, D. W. Jacobs, M. J. Black. 3D Menagerie: Modeling the 3D Shape and Pose of Animals. In *Computer Vision and Pattern Recognition (CVPR)*, 2017
14. F. Bogo*, A. Kanazawa*, C. Lassner, P. Gehler, J. Romero, M. J. Black (*equal contribution). Keep it SMPL: Automatic Estimation of 3D Human Pose and Shape from a Single Image. In *European Conference in Computer Vision (ECCV)*, 2016
15. WarpNet: Weakly Supervised Matching for Single-View Reconstruction
    Angjoo Kanazawa, David Jacobs, Manmohan Chandraker.
    Computer Vision and Pattern Recognition (CVPR), 2016
16. A. Kanazawa, S. Kovalsky, R. Basri, D. W. Jacobs. Learning 3D Articulation and Deformation using 2D Images. In *Computer Graphics Forum (EUROGRAPHICS 2016 issue)*, Vol. 35(2), 2016. Best Paper Award at EUROGRAPHICS 2016
17. Dog Breed Classification using Part Localization
    Jiongxin Liu, Angjoo Kanazawa, Peter Belhumeur, David Jacobs.
    European Conference in Computer Vision (ECCV), 2012

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, EUROGRPAHICS 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

Teaching Experience

Instructor, UC Berkeley Fall 2020
CS294-173 Learning for 3D Vision

Teaching Assistant, University of Maryland, College Park
CMSC828L Deep Learning Fall 2016 CMSC421 Introduction to Artificial Intelligence Spring 2012
CMSC131 Object-Oriented Programming I Fall 2011

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

Service and Professional Activities

Area Chair / Program Committee: CVPR 2020, 2021, ACCV 2020, SIGGRAPH 2021
Reviewer: CVPR, ICCV, ECCV, NIPS, 3DV, CVIU, ICRA
Workshop Organized:
Women in Computer Vision ECCV 2018
Sensing, Understanding and Synthesizing Humans ICCV 2019
3D Poses in the Wild Challenge ECCV 2020
Graduate Admissions Committee, UC Berkeley 2018, 2020, 2021
UMD Computer Vision Student Seminar Organizer 2012-2015
President of Women in Computing, New York University 2009-2011
Vice President of ACM, New York University 2010-2011