

# Angjoo Kanazawa

University of California, Berkeley  
Berkeley Way West 8014, Berkeley, CA 94720  
kanazawa@berkeley.edu  
<http://www.people.eecs.berkeley.edu/~kanazawa/>

## Academic and Research Employment

Assistant Professor, EECS, University of California, Berkeley July 2020–  
Research Scientist, Google Research September 2019–August 2021  
Postdoctoral Scholar, EECS, University of California, Berkeley 2017–2019

## Education

Ph.D., Computer Science, University of Maryland, College Park, USA July 2017  
Thesis: *Single-View 3D Reconstruction of Animals*  
Advisor: David Jacobs  
BA., Computer Science and Mathematics, New York University, USA May 2011  
*Magna Cum Laude*

## Publications in Reverse Chronological Order

1. Li, R., Yang, S., Ross, A. D. and **Kanazawa, A.**, “Learn to Dance with AIST++: Music Conditioned 3D Dance Generation,” Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), October 2021
2. Yu, A., Li, R., Tancik, M., Li, H., Ng, R. and **Kanazawa, A.**, “PlenOctrees for Real-time Rendering of Neural Radiance Fields,” Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), October 2021.
3. Liu, A., Tucker, R., Jampani, V., Makadia, A., Snavely, N. and **Kanazawa, A.**, “Infinite Nature: Perpetual View Generation of Natural Scenes from a Single Image,” Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), October 2021.
4. Peng, X. B., Ma, Z., Abbeel, P., Levine, S., and **Kanazawa, A.**, “AMP: Adversarial Motion Priors for Stylized Physics-Based Character Control,” ACM Transactions on Graphics, Vol. 40, No. 4, July 2021
5. Wu, S., Makadia, A., Wu, J., Snavely, N., Tucker, R. and Kanazawa, A., “De-rendering the World’s Revolutionary Artefacts,” Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021, pp. 6338–6347
6. Jakab, T., Tucker, R., Makadia, A., Wu, J., Snavely, N. and **Kanazawa, A.**, “KeypointDeformer: Unsupervised 3D Keypoint Discovery for Shape Control,” Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021, pp. 12783–12792
7. Yu, A., Ye, V., Tancik, M. and **Kanazawa, A.**, “pixelNeRF: Neural Radiance Fields from One or Few Images,” Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021, pp. 4578–4587.
8. Levinson, J., Esteves, C., Chen, K., Snavely, N., **Kanazawa, A.**, Rostamizadeh, “An Analysis of SVD for Deep Rotation Estimation,” A. and Makadia, A., Advances in Neural Information Processing Systems 33: Annual Conference on Neural Information Processing Systems 2020 (NeurIPS), December 2020.

9. 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
10. S. Goel, **A. Kanazawa**, J. Malik, Shape and Viewpoint without Keypoints. In *European Conference in Computer Vision (ECCV)*, 2020
11. 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
12. 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
13. J. Y. Zhang, P. Felsen, **A. Kanazawa** J. Malik. Predicting 3D Human Dynamics from Video. In *International Conference on Computer Vision (ICCV)*, 2019
14. **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
15. 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
16. **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
17. **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
18. 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
19. 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
20. 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
21. 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
22. 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
23. WarpNet: Weakly Supervised Matching for Single-View Reconstruction  
**A. Kanazawa**, D. Jacobs, M. Chandraker.  
*Computer Vision and Pattern Recognition (CVPR)*, 2016
24. **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
25. J. Liu, **A. Kanazawa**, P. Belhumeur, D. Jacobs. Dog Breed Classification using Part Localization. *European Conference in Computer Vision (ECCV)*, 2012

## Awards and Honors

Google Research Scholar Program Award	2021
— Awarded to 7 early career faculty globally in machine vision.	
Rising Stars in EECS	2018
— Awarded to 80 women EECS graduate and postdoctoral women.	
Best Paper Award, Rank Prize	2018
— Symposium on Geometry and Uncertainty in Deep Learning for Computer Vision.	
Best Paper Award, EUROGRAPHICS	2016
— “Learning 3D Articulation and Deformation using 2D Images”	
Google Anita Borg Scholar	2011
— Awarded to 25 students in the US	
NYU Computer Science Prize for Academic Excellence and Service to the Department	2011

## Teaching

<b>CS194-26/294-26: Intro to Computer Vision and Computational Photography</b>	UC Berkeley,
Fall 2021	
Co-Instructor	
<b>CS184/284a: Foundations of Computer Graphics</b>	UC Berkeley, Spring 2021
Co-Instructor	
<b>CS294-173 Learning for 3D Vision</b>	UC Berkeley, Fall 2020
Instructor	
CMSC828L Deep Learning	University of Maryland, College Park, Fall 2016
TA for Prof. David Jacobs	
CMSC421 Introduction to Artificial Intelligence	University of Maryland, College Park, Spring 2012
TA for Prof. Hal Daumé III	
CMSC 131 Object-Oriented Programming I	University of Maryland, College Park, Fall 2011
Teaching Assistant	
CSCI-UA.0101 Introduction to Computer Science I	New York University, Fall 2008
Teaching Assistant	
CSCI-UA.0103 Introduction to Computer Science II	New York University, Spring 2009
Teaching Assistant	

## Synergistic Activities

### Professional Services:

Area Chair: IEE CVPR 2020-2022, IEE ICCV 2021, ACCV 2020

Program Committee: ACM SIGGRAPH (2021)

Reviewer: CVPR, ICCV, ECCV, NeurIPS, PAMI, 3DV, ICRA

### Invited Talks and Interviews:

1. Frontiers of Monocular Perception, CVPR’21 workshop  
*Predicting Scenes from One or Few Images* June 2021
2. MedaForensics, CVPR’21 workshop  
*Towards Relighting and Material Recovery from Image Collections* June 2021
3. 3D Scene Understanding for Vision, Graphics, and Robotics, CVPR’21 workshop  
*Perceiving 3D Human Interaction in the Wild.* June 2021

4. Learning from Unlabeled Video, CVPR'21 workshop  
*Infinite Nature Perpetual View Generation of Natural Scenes from a Single Image* June 2021
5. SMPL-made-simple Tutorial, CVPR'21 workshop  
*Visual Imitation with SMPL* June 2021
6. Stanford Imaging SCIEN Seminar  
*Pushing the Boundaries of Novel View Synthesis* May 2021
7. ML Collective  
*Infinite Nature: Perpetual View Generation of Natural Scenes from a Single Image* April 2021
8. UCSD Invited Lecture March 2021
9. MIT Vision Seminar  
*On Novel and Perpetual View Synthesis* February 2021
10. UIUC Vision Group  
*On Novel and Perpetual View Synthesis* February 2021
11. Google Research MobileVision team January 2021
12. **Keynote**, ACM SIGGRAPH European Conference on Visual Media Production (CVMP) Dec 2020  
*Perceiving Humans, Animals and Objects in the 3D World*
13. MITxHarvard Women in AI Interview October 2020  
[https://www.youtube.com/watch?v=MGo\\_Vca29m0](https://www.youtube.com/watch?v=MGo_Vca29m0)
14. TUM AI Lecture Series July 2020  
*Perceiving Humans and Objects in the 3D World*
15. Learning 3D Representations for Shape and Appearance, ECCV'20 workshop August 2020  
*Learning Morphable Shape Models from Image Collections*
16. Tracking and its many guises, ECCV'20 workshop August 2020  
*Challenges in perceiving 3D humans in videos*
17. Women in Machine Learning (WiML) Panel ICML'20 July 2020
18. AI for Content Creation CVPR'20 Workshop June 2020
19. Compositionality in Computer Vision CVPR'20 Workshop June 2020

### Workshops Organized:

CV4Animals: Computer Vision for Animal Behavior Tracking and Modeling	CVPR 2021
AI for Content Creation	CVPR 2021
3D Scene Understanding for Vision, Graphics, and Robotics	CVPR 2021
3D Poses in the Wild Challenge	ECCV 2020
Sensing, Understanding and Synthesizing Humans	ICCV 2019
Women in Computer Vision	ECCV 2018

### Service Activities:

Faculty Sponsor, BAIR Research Experience for Undergraduates (REU)	Summer 2021
Graduate Admissions Committee, UC Berkeley	2018, 2020, 2021
Mentor, EECS Peers, UC Berkeley	2018
Computer Vision Student Seminar Organizer, University of Maryland, College Park	2012-2015
President of Women in Computing, New York University	2009-2011
Vice President of ACM, New York University	2010-2011