

Angjoo Kanazawa

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Education

University of Maryland, College Park

PhD in Computer Science

Advisor: David Jacobs

College Park, MD, USA

July 2017

New York University

B.A in Computer Science and Mathematics, Magna Cum Laude

Advisor: Rob Fergus

New York, NY, USA

May, 2011

Research Experience

University of California Berkeley

Postdoctoral Researcher

Advisor: Jitendra Malik, Alyosha Efros, Trevor Darrell

Berkeley, CA

September 2017 - Present

Max Planck Institute for Intelligent Systems

Research Intern

Advisor: Michael Black

Conducted research on fully automatic method for single-view reconstruction of humans using the SMPL body model.

Tübingen, Germany

January 2016 - July 2016

NEC Labs America

Research Intern

Advisor: Manmohan Chandraker

Conducted research on weakly supervised single view reconstruction of birds. Developed and trained a novel ConvNet architecture whose output serves as a spatial prior for finding correspondence between two bird images.

Cupertino, CA

June 2015 - September 2015

University of Maryland

Graduate Research Assistant

Advisor: David Jacobs

Researching fine-grained classification, deep learning, 3D representation for deformable objects, and single-view 3D reconstruction.

College Park, MD

June 2012 - June 2017

Columbia University

Research Intern

Advisor: Peter Belhumeur and David Jacobs

Developed a method based on random fern regressor to localize landmark of faces, dogs, and birds for fine-grained classification

New York, NY

June 2012 - August 2012

Courant Institute of Mathematics, NYU

Undergraduate Research Assistant

Advisor: Rob Fergus

Improved an automatic diagnosis system for a diabetic eye disease with various machine learning techniques such as SVM, quadratic optimization, and artificial neural networks.

New York, NY

September 2010 - May 2011

Publications

- [1] **Angjoo Kanazawa***, Shubham Tulsiani*, Alxei A. Efros, Jitendra Malik (* equal contribution). “Learning Category-Specific Mesh Reconstruction from Image Collections”, <https://arxiv.org/abs/1803.07549> 2018
- [2] **Angjoo Kanazawa**, Michael J. Black, David W. Jacobs, Jitendra Malik. “End-to-end Recovery of Human Shape and Pose” *CVPR 2018*
- [3] Soumyadip Sengupta, **Angjoo Kanazawa**, Carlos D. Castillo, David W. Jacobs. “SfSNet: Learning Shape, Reflectance and Illuminance of Faces ‘in the wild’”, *CVPR 2018*
- [4] Silvia Zuffi, **Angjoo Kanazawa**, Michael J. Black. “Lions and tigers and bears: Capturing non-rigid, 3D, articulated shape from images”, *CVPR 2018*
- [5] Yinghao Huang, Federica Bogo, Christoph Lassner, **Angjoo Kanazawa**, Peter V. Gehler, Javier Romero, Ijaz Akhter, Michael J. Black. “Towards Accurate marker-less Human Shape and Pose Estimation over Time”, *3DV 2017*
- [6] Silvia Zuffi, **Angjoo Kanazawa**, David Jacobs, Michael J. Black. “3D Menagerie: Modeling the 3D shape and pose of animals”, *CVPR 2017*
- [7] Federica Bogo*, **Angjoo Kanazawa***, Christoph Lassner, Peter Gehler, Javier Romero, Michael J. Black (* equal contribution). “Keep it SMPL: Automatic Estimation of 3D Human Pose and Shape from a Single Image”, *ECCV 2016*
- [8] **Angjoo Kanazawa**, David Jacobs, Manmohan Chandraker. “WarpNet: Weakly Supervised Matching for Single-View Reconstruction”, *CVPR 2016*
- [9] **Angjoo Kanazawa**, Shahar Kovalsky, Ronen Basri, David Jacobs. “Learning 3D Articulation and Deformation using 2D Images”, *Eurographics 2016*
Günter Enderle Best Paper Award
- [10] **Angjoo Kanazawa**, Abhishek Sharma, David Jacobs. “Locally Scale-invariant Convolutional Neural Network”, *Deep Learning and Representation Learning Workshop: NIPS 2014*
- [11] Austin Myers, **Angjoo Kanazawa**, Cornelia Fermuller, Yiannis Aloimonos. “Affordance of Object Parts from Geometric Features”, *RGB-D: Advanced Reasoning with Depth Cameras: RSS 2014, Vision Meets Cognition Workshop: CVPR 2014*
- [12] Jiongxin Liu, **Angjoo Kanazawa**, Peter Belhumeur, David Jacobs. “Dog Breed Classification using Part Localization”, *ECCV 2012*

Industry Experience

Google X, Self-driving Car Team

Software Engineering Intern

Developed a Computer Vision system to recognize visual occluders.

Mountain View, CA

May 2014 - August 2014

Goldman Sachs

Technology Summer Analyst

Implemented a backward compatible serialization system for archiving large-scale data efficiently.

New York, NY

May 2010 - August 2010

New York University Wagner School of Public Service

Web Developer

New York, NY

September 2009 - May 2010

Patents

Detecting Out-of-Focus Images, Angjoo Kanazawa, Wan-Yen Lo, Abhijit Ogale, in preparation.

Invited Talks

Solving Inverse Graphics Problems in-the-wild January 2018

GRASP Seminar, University of Pennsylvania

Single-view Reconstruction of Animals Spring 2017

BAIR, UC Berkeley

CVGL, Stanford University

NEC Labs America

Adobe Research

Oculus Research

Facebook

Learning 3D Articulation and Deformation from 2D Images Spring 2016

Max Planck Institute for Intelligent Systems, Tübingen, Germany

Eurographics 2016, Lisbon, Portugal

Dog Breed Classification using Part Localization January 2013

the 7th International Workshop on Robust Computer Vision (IWRCV), Osaka University, Japan

Service

Graduate Admissions, UC Berkeley 2018

ECCV Women in Computer Vision Workshop Organizer, 2018

Organizer of UMD Computer Vision Student Seminar 2012-2015

President of Women in Computing, New York University 2009-2011

Vice President of ACM, New York University 2010-2011

Reviewer: CVPR, ICCV, ECCV, NIPS, 3DV, CVIU

Teaching Experience

Spring 2012: (CMSC421) **Introduction to Artificial Intelligence**, University of Maryland

Fall 2011: (CMSC131) **Object-Oriented Programming I**, University of Maryland

Fall 2008-Spring 2009: (CSCI-UA.0101,103) **Introduction to Computer Science I, II**, New York University

Honors and Awards

Günter Enderle Best Paper Award, Eurographics 2016

Graduate Student Summer Research Fellowship, University of Maryland, College Park, 2013

Block Fellowship, Computer Science Department, University of Maryland, College Park, 2011-2013

Google Anita Borg Memorial Scholarship, 2011

Computer Science Prize for Academic Excellence and Service to the Department, New York University, 2011

Dean's List of Distinguished Students, New York University, 2009-2011

Programming Skills

Python, C/C++, CUDA, MATLAB, Java, Javascript, Objective-C, Emacs, L^AT_EX, Linux