

**Angjoo Kanazawa**  
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## Education

### University of Maryland, College Park

*PhD in Computer Science*

– Advisor: Dr. David Jacobs

College Park, MD, USA

*expected June 2017*

### New York University

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

– Advisor: Dr. Rob Fergus

New York, NY, USA

*May, 2011*

## Academic Research Experience

### Research Intern

*Max Planck Institute for Intelligent Systems, Perceiving Systems*

– Advisor: Michael Black

– Worked on a fully automatic method for single-view reconstruction of humans using the SMPL body model and a state of the art human pose detection ConvNet.

Tübingen, Germany

*January 2016 - July 2016*

### Research Intern

*NEC Labs America*

– Advisor: Manmohan Chandraker

– Worked 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*

### Graduate Research Assistant

*Center for Automation Research, University of Maryland*

– Advisor: David Jacobs

– Developed a method to learn 3D deformation of animals, specifically cats and horses, from annotated 2D images.

– Developed scale-invariant deep convolutional networks

– Improved a large-scale object detection system utilizing ideas from fine-grained classification.

College Park, MD

*June 2012 - Present*

### Graduate Research Assistant

*Columbia University*

– Advisor: Peter Belhumeur and David Jacobs

– Develop 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*

### Undergraduate Research Assistant

*Courant Institute of Mathematics, NYU*

– 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

**3D Menagerie: Modeling the 3D shape and pose of animals** Silvia Zuffi, Angjoo Kanazawa, David Jacobs, Michael J. Black *CVPR 2017*

**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) *ECCV 2016*

**WarpNet: Weakly Supervised Matching for Single-View Reconstruction** Angjoo Kanazawa, David Jacobs, Manmohan Chandraker *CVPR 2016*

**Learning 3D Articulation and Deformation using 2D Images** Angjoo Kanazawa, Shahar Kovalsky, Ronen Basri, David Jacobs, *Eurographics 2016*

**Günter Enderle Best Paper Award**

**Locally Scale-invariant Convolutional Neural Network** Angjoo Kanazawa, Abhishek Sharma, David Jacobs, *Deep Learning and Representation Learning Workshop: NIPS 2014*

**Affordance of Object Parts from Geometric Features** Austin Myers, Angjoo Kanazawa, Cornelia Fermüller, Yiannis Aloimonos, *RGB-D: Advanced Reasoning with Depth Cameras: RSS 2014, Vision Meets Cognition Workshop: CVPR 2014*

**Dog Breed Classification using Part Localization** Jiongxin Liu, Angjoo Kanazawa, Peter Belhumeur, David Jacobs, *ECCV, 2012*

## Employment History

**Software Engineering Intern** Mountain View, CA  
*Google X, Self-driving Car Team* May 2014 - August 2014  
– Developed a Computer Vision system to recognize visual occluders.

**Technology Summer Analyst** New York, NY  
*Goldman Sachs* May 2010 - August 2010  
– Implemented a backward compatible serialization system for archiving large-scale data efficiently.

**Web Developer** New York, NY  
*New York University Wagner School of Public Service* September 2009 - May 2010

**Software Engineer Intern** New York, NY  
*IndustryNext, LLC* May 2009 - August 2009

## Patents

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

## Talks

**Dog Breed Classification using Part Localization**, the 7th International Workshop on Robust Computer Vision (IWRCV), Osaka University, Japan, January 2013

**Explicit Shape Regression**, the Computer Vision Student Seminar, University of Maryland, College Park, September 2012

## 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

## Programming Skills

C/C++, CUDA, MATLAB, Python, Java, Javascript, Objective-C, Emacs, L<sup>A</sup>T<sub>E</sub>X, Linux

## 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

## Activities

Organizer of the 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

International Collegiate Programming Competition, 2008-2011