Georgios Pavlakos

CONTACT INFORMATION

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University of California, Berkeley
Berkeley, CA 94704

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EDUCATION

University of Pennsylvania, USA **2014 - 2020**
PhD in Computer and Information Science
Thesis: Learning to Reconstruct 3D Humans
Advisor: Kostas Daniilidis

National Technical University of Athens, Greece **2008 - 2014**
Diploma in Electrical and Computer Engineering (MEng, five-year degree)
GPA: 9.56/10, rank in top 1% of class
Diploma thesis supervisor: Petros Maragos

ACADEMIC POSITION

University of California, Berkeley, USA **August 2020 - Current**
Postdoctoral Scholar
Advisors: Angjoo Kanazawa, Jitendra Malik

PUBLICATIONS

The One Where They Reconstructed 3D Humans and Environments in TV Shows
Georgios Pavlakos[*], Ethan Weber[*], Matthew Tancik, Angjoo Kanazawa (* equal contribution)
European Conference on Computer Vision (ECCV), 2022

Human Mesh Recovery from Multiple Shots
Georgios Pavlakos, Jitendra Malik, Angjoo Kanazawa
Computer Vision and Pattern Recognition (CVPR), 2022

Tracking People by Predicting 3D Appearance, Location and Pose
Jathushan Rajasegaran, **Georgios Pavlakos**, Angjoo Kanazawa, Jitendra Malik
Computer Vision and Pattern Recognition (CVPR), 2022, **Best Paper Finalist**

Tracking People with 3D Representations
Jathushan Rajasegaran, **Georgios Pavlakos**, Angjoo Kanazawa, Jitendra Malik
Advances in Neural Information Processing Systems (NeurIPS), 2021

Probabilistic Modeling for Human Mesh Recovery
Nikos Kolotouros, **Georgios Pavlakos**, Dinesh Jayaraman, Kostas Daniilidis
International Conference on Computer Vision (ICCV), 2021

Reactive Navigation in Partially Familiar Planar Environments Using Semantic Perceptual Feedback
Vasileios Vasilopoulos, **Georgios Pavlakos**, Karl Schmeckpeper, Kostas Daniilidis, Daniel E. Koditschek
International Journal of Robotics Research (IJRR), 2021

Monocular Expressive Body Regression through Body-Driven Attention
Vasileios Choutas, **Georgios Pavlakos**, Nima Ghorbani, Timo Bolkart, Dimitrios Tzionas, Michael J. Black
European Conference on Computer Vision (ECCV), 2020

Coherent Reconstruction of Multiple Humans from a Single Image
Wen Jiang, Nikos Kolotouros, **Georgios Pavlakos**, Xiaowei Zhou, Kostas Daniilidis
Computer Vision and Pattern Recognition (CVPR), 2020

Reactive Navigation in Partially Familiar Planar Environments Using Semantic Perceptual Feedback
Vasileios Vasilopoulos, **Georgios Pavlakos**, Sean L. Bowman, J. Diego Caporale, Kostas Daniilidis, George J. Pappas, Daniel E. Koditschek
IEEE Robotics and Automation Letters (RAL), 2020

TexturePose: Supervising Human Mesh Estimation with Texture Consistency
Georgios Pavlakos[*], Nikos Kolotouros[*], Kostas Daniilidis (* equal contribution)
International Conference on Computer Vision (ICCV), 2019

Learning to Reconstruct 3D Human Pose and Shape via Model-Fitting in the Loop
Nikos Kolotouros[*], **Georgios Pavlakos**[*], Michael J. Black, Kostas Daniilidis (* equal contribution)
International Conference on Computer Vision (ICCV), 2019

Expressive Body Capture: 3D Hands, Face, and Body from a Single Image
Georgios Pavlakos[*], Vasileios Choutas[*], Nima Ghorbani, Timo Bolkart, Ahmed A. A. Osman, Dimitrios Tzionas, Michael J. Black (* equal contribution)
Computer Vision and Pattern Recognition (CVPR), 2019, **Oral Presentation**

Convolutional Mesh Regression for Single-Image Human Shape Reconstruction
Nikos Kolotouros, **Georgios Pavlakos**, Kostas Daniilidis
Computer Vision and Pattern Recognition (CVPR), 2019, **Best Paper Finalist**

Ordinal Depth Supervision for 3D Human Pose Estimation
Georgios Pavlakos, Xiaowei Zhou, Kostas Daniilidis
Computer Vision and Pattern Recognition (CVPR), 2018, **Oral Presentation**

Learning to Estimate 3D Human Pose and Shape from a Single Color Image
Georgios Pavlakos, Luyang Zhu, Xiaowei Zhou, Kostas Daniilidis
Computer Vision and Pattern Recognition (CVPR), 2018
Invited to *3D HUMANS, CVPR Workshop, 2018*, **Best Poster Award**

MonoCap: Monocular Human Motion Capture using a CNN Coupled with a Geometric Prior
Xiaowei Zhou, Menglong Zhu, **Georgios Pavlakos**, Spyridon Leonardos, Konstantinos G. Derpanis, Kostas Daniilidis
Pattern Analysis and Machine Intelligence (PAMI), 2018

Human Motion Capture Using a Drone
Xiaowei Zhou, Sikang Liu, **Georgios Pavlakos**, Vijay Kumar, Kostas Daniilidis
International Conference on Robotics and Automation (ICRA), 2018

Coarse-to-Fine Volumetric Prediction for Single-Image 3D Human Pose
Georgios Pavlakos, Xiaowei Zhou, Konstantinos G. Derpanis, Kostas Daniilidis
Computer Vision and Pattern Recognition (CVPR), 2017, **Spotlight Presentation**

Harvesting Multiple Views for Marker-less 3D Human Pose Annotations
Georgios Pavlakos, Xiaowei Zhou, Konstantinos G. Derpanis, Kostas Daniilidis
Computer Vision and Pattern Recognition (CVPR), 2017, **Spotlight Presentation**

6-DoF Object Pose from Semantic Keypoints
Georgios Pavlakos, Xiaowei Zhou, Aaron Chan, Konstantinos G. Derpanis, Kostas Daniilidis
International Conference on Robotics and Automation, (ICRA), 2017

On Shape Recognition and Language
Petros Maragos, Vassilis Pitsikalis, Athanasios Katsamanis, **Georgios Pavlakos**, Stavros Theodorakis
Perspectives in Shape Analysis 2016

Honors and Awards

Morris and Dorothy Rubinoff Award **2021**
for best dissertation in the CIS department, UPenn

Outstanding Reviewer **2020-2021**
CVPR 2020, ECCV 2020, ACCV 2020, ICCV 2021, 3DV 2021

Best Poster Award **2018**
3D HUMANS, CVPR Workshop, 2018

Limmat Stiftung Award **2014**
for ranking 4th among the 2014 class of ECE NTUA

Papakyriakopoulos Award **2010**
for excellence in Mathematics among the second year ECE NTUA students

Greek State Scholarships Foundation **2010**
for ranking 2nd among the second year ECE NTUA students

Greek State Scholarships Foundation, **2009**
for ranking 6th among the first year ECE NTUA students

Invited Talks

Perceiving 3D Humans from Video
Stanford University, hosted by Jiajun Wu **2022**

Perceiving Humans in TV Shows
CV4Metaverse Workshop, ECCV 2022 **2022**

Reconstructing and Tracking 3D Humans from Video
University of Illinois, Urbana-Champaign **2022**
University of Massachusetts, Amherst **2022**

Reconstructing and Tracking People from Multiple Shots
Netflix **2022**

Probabilistic Modeling for Human Mesh Recovery
Workshop on Human-Centric Trustworthy Computer Vision, ICCV 2021 **2021**

Learning to Reconstruct 3D Humans
3D Poses in the Wild Workshop, ECCV 2020 **2020**
University of Washington, hosted by Ira Kemelmacher-Shlizerman **2020**
University of California, Berkeley, hosted by Angjoo Kanazawa **2020**
Stanford University, hosted by Silvio Savarese **2020**
Carnegie Mellon University, hosted by Deva Ramanan **2020**

Diverse Supervision for 3D Human Pose Estimation
National Technical University of Athens, hosted by Petros Maragos **2018**
Google Research, hosted by Cristian Sminchisescu **2018**
Max Planck Institute for Intelligent Systems, hosted by Michael Black **2018**

Service and Professional Activities

Graduate Admissions Committee, UC Berkeley **2021**
Mentor: BAIR Mentoring Program **2020-2022**
Mentor: BAIR REU / NSF SUPERB **2022**
Mentor: LatinX in AI Mentoring **2021**
Area Chair: CVPR 2021, CVPR 2022 **2021-2022**
Area Chair: ECCV 2022 **2022**
Area Chair: ICCV 2023 **2023**

Area Chair: BMVC 2021, BMVC 2022 **2021-2022**
Reviewer: CVPR, ECCV, ICCV, PAMI, SIGGRAPH, ICRA, 3DV **2017-Current**

Teaching Experience

CS 280: Computer Vision (Guest Lecturer) **Spring 2022**
taught by Prof. Jitendra Malik, Stella Yu (UC Berkeley)

CIS 580: Machine Perception (Teaching Assistant) **Spring 2019**
taught by Prof. Kostas Daniilidis (UPenn)

Robotics: Vision Intelligence and Machine Learning (Teaching Assistant) **Summer 2017**
taught by Prof. Jianbo Shi, Daniel Lee and Kostas Daniilidis (edX Online Course)

Robotics: Perception (Teaching Assistant) **Spring 2016**
taught by Prof. Jianbo Shi and Kostas Daniilidis (Coursera Online Course)

CIS 262, Automata, Computability and Complexity (Teaching Assistant) **Spring 2016**
taught by Prof. Jean Gallier (UPenn)

CIS 390: Robotics: Planning and Perception (Teaching Assistant) **Fall 2015**
taught by Prof. Kostas Daniilidis (UPenn)

Computer Vision (Teaching Assistant) **Spring 2014**
taught by Prof. Petros Maragos (NTUA)

Intro to Computer Programming (Teaching Assistant) **Fall 2009**
taught by Prof. Stathis Zachos, Nikolaos Papaspyrou, Aris Pagourtzis (NTUA)

Research Internships

Max Planck Institute for Intelligent Systems **April - September 2018**
Advisor: Michael J. Black

Facebook Reality Labs, Pittsburgh **May - October 2019**
Advisors: Tomas Simon, Yaser Sheikh