Georgia Gkioxari

Webpage: `https://gkioxari.github.io`
Email: `gkioxari@eecs.berkeley.edu`

Education

University of California, Berkeley
Department of Electrical Engineering and Computer Science
Ph.D. *(September 2010-May 2016)*
Advisor: Prof. Jitendra Malik

National Technical University of Athens
Department of Electrical and Computer Engineering
Diploma (5-year degree) in Electrical Engineering *(October 2005-July 2010)*
Major: Signals, Systems and Robotics
G.P.A. : Overall: 9.78/10 - ranked 2nd (Major: 9.96/10)
Thesis Supervisor: Prof. Petros Maragos

Research Experience

Facebook AI Research
Research Scientist, January 2018 - present

Facebook AI Research
Post-doctoral Researcher, September 2016 - January 2018

Google Research Intern, Machine Perception
Internship with the Google Machine Perception Team, working on object recognition.
August 2015-March 2016

Google Research Intern, Google Brain
Internship with the Google Brain Team, working on sequential models for structured tasks.
May 2015-August 2015

Graduate Student Researcher, Computer Vision Group
Department of Electrical Engineering and Computer Science, University of California, Berkeley
September 2010-present

Visiting Researcher, LEAR, INRIA Grenoble-Rhone Alpes
Summer 2013

Undergraduate Member, Computer Vision, Speech Communication and Signal Processing Group.
Undergraduate Thesis: *"Three Dimensional Reconstruction of Objects and Buildings using Multiple View Geometry"* (in Greek)
Department of Electrical and Computer Engineering, NTUA
September 2009 - July 2010

Open Source Libraries

Pytorch3D
Nikhila Ravi, Jeremy Reizenstein, David Novotny, Taylor Gordon, Wan-Yen Lo, Justin Johnson and Georgia Gkioxari
`https://github.com/facebookresearch/pytorch3d`

Detectron
Ross Girshick, Ilija Radosavovic, Georgia Gkioxari, Piotr Dollàr and Kaiming He
`https://github.com/facebookresearch/Detectron`

Publications

3D Shape Reconstruction from Vision and Touch
Edward J. Smith, Roberto Calandra, Adriana Romero, Georgia Gkioxari, David Meger, Jitendra Malik and Michal Drozdal
Conference on Neural Information Processing Systems (NeurIPS), 2020

SynSin: End-to-end View Synthesis from a Single Image
Olivia Wiles, Georgia Gkioxari, Rick Szeliski and Justin Johnson
Computer Vision and Pattern Recognition (CVPR), 2020

Mesh R-CNN
Georgia Gkioxari, Jitendra Malik and Justin Johnson
International Conference of Computer Vision (ICCV), 2019

Embodied Question Answering in Photorealistic Environments with Point Cloud Perception
Erik Wijmans, Samyak Datta, Oleksandr Maksymets, Abhishek Das, Georgia Gkioxari, Stefan Lee, Irfan Essa, Devi Parikh and Dhruv Batra
Computer Vision and Pattern Recognition (CVPR), 2019

Multi-Target Embodied Question Answering
Licheng Yu, Xinlei Chen, Georgia Gkioxari, Mohit Bansal, Tamara Berg and Dhruv Batra
Computer Vision and Pattern Recognition (CVPR), 2019

Neural Modular Control for Embodied Question Answering
Abhishek Das, Georgia Gkioxari, Stefan Lee, Devi Parikh and Dhruv Batra
Conference on Robot Learning (CoRL), 2018

Detecting and Recognizing Human-Object Interactions
Georgia Gkioxari, Ross Girshick, Piotr Dollàr and Kaiming He
Computer Vision and Pattern Recognition (CVPR), 2018

Embodied Question Answering
Abhishek Das, Samyak Datta, Georgia Gkioxari, Stefan Lee, Devi Parikh, Dhruv Batra

Computer Vision and Pattern Recognition (CVPR), 2018

Detect-and-Track: Efficient Pose Estimation in Videos
Rohit Girdhar, Georgia Gkioxari, Lorenzo Torresani, Manohar Paluri and Du Tran
Computer Vision and Pattern Recognition (CVPR), 2018

Data Distillation: Towards Omni-Supervised Learning
Ilija Radosavovic, Piotr Dollàr, Ross Girshick, Georgia Gkioxari and Kaiming He
Computer Vision and Pattern Recognition (CVPR), 2018

Building Generalizable Agents With a Realistic And Rich 3D Environment
Yi Wu, Yuxin Wu, Georgia Gkioxari, Yuandong Tian
International Conference on Learning Representations - Workshop Track (ICLR), 2018

Mask R-CNN
Kaiming He, Georgia Gkioxari, Piotr Dollàr and Ross Girshick
International Conference of Computer Vision (ICCV), 2017

Learn2Smile: Learning Non-verbal Interaction through Observation
Will Feng, Anitha Kannan, Georgia Gkioxari, Larry Zitnick
International Conference on Intelligent Robots and Systems (IROS), 2017

Chained Predictions using Convolutional Neural Networks
Georgia Gkioxari, Alexander Toshev and Navdeep Jaitly
European Conference of Computer Vision (ECCV), 2016

The Three R's of Computer Vision: Recognition, Reconstruction and Reorganization
J. Malik, P. Arbelàez, J. Carreira, K. Fragkiadaki, R. Girshick, G. Gkioxari, S. Gupta, B. Hariharan, A. Kar, S. Tulsiani
Pattern Recognition Letters, 2016

Contextual Action Recognition with R*CNN
Georgia Gkioxari, Ross Girshick and Jitendra Malik
International Conference of Computer Vision (ICCV), 2015

Actions and Attributes from Wholes and Parts
Georgia Gkioxari, Ross Girshick and Jitendra Malik
International Conference of Computer Vision (ICCV), 2015

Finding Action Tubes
Georgia Gkioxari and Jitendra Malik
Computer Vision and Pattern Recognition (CVPR), 2015

Using *k*-poselets for detecting people and localizing their keypoints
Georgia Gkioxari*, Bharath Hariharan*, Ross Girshick and Jitendra Malik
Computer Vision and Pattern Recognition (CVPR), 2014
* authors contributed equally

Articulated Pose Estimation using Discriminative Armlet Classifiers
Georgia Gkioxari, Pablo Arbelaez, Lubomir Bourdev and Jitendra Malik
Computer Vision and Pattern Recognition (CVPR), 2013

Talks

Lecturer at SIGGRAPH Asia Course on PyTorch3D, December 2020

Women in Machine Learning (WiML) Workshop, NeurIPS 2020

Invited Speaker at Differentiable computer vision, graphics, and physics in ML Workshop, NeurIPS 2020

Invited Talk at 3DGV Seminar, October 2020

TWiML podcast, September 2020

Invited Talk at the Center for Research and Formation in AI, University de los Andes, Bogotá, Colombia, September 2020

Invited Speaker at Learning 3D Generative Models, CVPR 2020

Invited Speaker at Women in Computer Vision, CVPR 2020

Lecturer at African's Master of Machine Intelligence at AIMS, Kigali, April 2020

Invited Speaker at Geometry Meets Deep Learning Workshop, ICCV 2019, Korea

Invited Speaker at Person in Context Workshop, ICCV 2019, Korea

Scenes from Video Workshop, Madrid, September 2019

Invited Speaker at Benchmarking Multi-Target Tracking: How crowded can it get? Workshop, CVPR 2019, Long Beach

Invited Speaker at Deep Learning for Visual Navigation Workshop, CVPR 2019, Long Beach

Lecturer at African's Master of Machine Intelligence at AIMS, Kigali, April 2019

GRASP Lab Seminar at UPenn, April 2019

Lecturer at International Computer Vision Summer School, Sicily, July 2018

Deep Learning for Robotics Summit by Re-Work, San Francisco, July 2018

Invited Speaker at Good Citizen Workshop of CVPR, CVPR 2018, Salt Lake City

Visual Recognition and Beyond Tutorial, CVPR 2018, Salt Lake City

Instance-level Visual Recognition Tutorial, ICCV 2017, Venice

Service

Program Chair for CVPR 2021

Area Chair for CVPR 2018, 2019, 2020

Program committee for CVPR, ECCV, ICCV, ICML, NIPS, ICLR

Honors/Awards/Nominations

Nomination for Women in AI Awards, Venturebeat, 2020, `https://venturebeat.com/2020/07/15/announcing-nominees-for-the-second-annual-women-in-ai-awards/`

30 Influential Women Advancing AI in 2019, `https://blog.re-work.co/top-women-in-ai-2019/`

Marr Prize for Mask R-CNN, ICCV 2017

CVPR 2017 Outstanding Reviewer, 2017

Rising Stars in EECS, 2014

Graduate Student Instructor Outstanding Award for TA'ing CS188: Introduction to Artificial Intelligence during the fall semester 2011

Scholarship granted by The State Scholarship Foundation for excellent academic performance for the academic year 2009-2010

Thomaidio Award for excellend academic performance for the academic year 2009-2010

KARY Award for excellent academic performace for academic year 2009-2010

Thomaidio Award for excellent academic performance for the academic year 2008-2009

KARY Award for excellent academic performance for academic year 2008-2009

Scholarship granted by The State Scholarship Foundation for excellent academic performance for academic year 2006-2007

Award granted by the legacy of Chr. Papakyriakopoulos for excellent performance in mathematics for academic year 2006-2007

KARY Award for excellent academic performance for academic year 2006-2007

Award granted by the legacy of Chr. Papakyriakopoulos for excellent performance in mathematics for academic year 2005-2006

Scholarship in memory of professor "Nikolaos Kritikos" for excellent performance in mathematics for academic year 2005-2006

Eurobank EFG Award for achieving the highest GPA score in my highschool for academic year 2004-2005

Relevant Coursework

Artificial Intelligence: Computer Vision, Statistical Learning Theory A, Natural Language Processing, Neural Computation

Theory: Introduction to Convex Optimization, Randomized Computation

Neuroscience: Visual Neuroscience

Teaching Experience

CS188: Artificial Intelligence - Graduate Student Instructor Outstanding Award
Fall 2011. (GSI) Search. Markov Decision Processes. Reinforcement Learning. Bayes Nets. Probabilistic Tracking. PacMan

CS280: Computer Vision Fall 2012. (GSI) Human visual perception. Stereo. Image Segmentation. Texture. Object recognition.

Computer Skills

Deep Learning Libraries: PyTorch, , Tensor Flow, Caffe2, Caffe

Programming Languages: Python, C/C++, Java

Platforms: Windows, GNU/Linux, Macosx

Language Skills

Greek, native

English, Certificate of Proficiency in English, University of Michigan

German, Mittelstufe, Goethe Institut

French, three years of studies

Last updated: November 6, 2020