

Georgia Gkioxari

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Work Experience

Computing + Mathematical Sciences (CMS), Caltech Assistant Professor	01/2023 – now
Meta, Facebook AI Research Research Scientist	01/2018 – 12/2022
Meta, Facebook AI Research Post-doctoral Researcher	09/2016 – 01/2018
Google AI, Machine Perception Research Intern with Rahul Sukthankar, Jitendra Malik	08/2015 – 05/2016
Google Brain Research Intern with Navdeep Jaitly	05/2015 – 08/2015
INRIA Grenoble-Rhone Alpes, LEAR Visiting Researcher with Cordelia Schmid	06/2013 – 08/2013
UC Berkeley, Computer Vision Group Graduate Student Researcher with Jitendra Malik	08/2010 – 09/2016
NTUA, Computer Vision Group Undergraduate Member with Petros Maragos	09/2009 – 07/2010

Education

University of California, Berkeley Ph.D. in Electrical Engineering and Computer Science Thesis: “Contextual visual recognition from images and videos” Advisor: Prof. Jitendra Malik	2010 – 2016
National Technical University of Athens Diploma in Electrical and Computer Engineering (5-year degree) Major: Signals, Systems and Robotics Thesis: “3D Reconstruction of Objects and Buildings with Multiple View Geometry” G.P.A.: Overall: 9.78/10 (Major: 9.96/10) – ranked 2 nd Advisor: Prof. Petros Maragos	2005 – 2010

Teaching Experience

EE/CS 148 – Large Language And Vision Models Caltech, Spring 2023	2023
AIMS, AMMI Object Recognition, 3D Computer Vision	2019 – 2022

ICVSS, Italy Object Recognition	Summer, 2018
CS280: Computer Vision , UC Berkeley Human visual perception, stereo, image segmentation, texture, object recognition	Spring, 2012
CS188: Introduction to Artificial Intelligence , UC Berkeley Search, Markov decision processes, reinforcement learning, Bayes nets, probabilistic tracking, Pac-Man Graduate Student Instructor Outstanding Award	Fall, 2011

Open Source Libraries

PyTorch3D Nikhila Ravi, Jeremy Reizenstein, David Novotny, Taylor Gordon, Wan-Yen Lo, Justin Johnson and Georgia Gkioxari	2020
Detectron Ross Girshick, Ilija Radosavovic, Georgia Gkioxari, Piotr Dollár and Kaiming He PAMI Mark Everingham Prize	2017

Honors/Awards/Nominations

• William H. Hurt Scholar	2023
• PAMI Young Researcher Award Awarded annually to one or two researchers for distinguished research contribution in computer vision within seven years of their PhD.	2021
• PAMI Mark Everingham Prize for Detectron Awarded to a researcher, or a team of researchers, who have made a selfless contribution of significant benefit to other members of the computer vision community. This prize was awarded to the Detectron team for our object detection library suite Detectron.	2021
• Nomination for Women in AI Awards, VentureBeat	2020
• 30 Influential Women Advancing AI in 2019, ReWork	2019
• Marr Prize for Mask R-CNN , ICCV The ICCV best paper award is the Marr Prize, named after British neuroscientist David Marr. The award is picked by a committee delegated by the program chairs of the conference.	2017
• CVPR Outstanding Reviewer, CVPR	2017
• Rising Stars in EECS	2014
• Graduate Student Instructor Outstanding Award for CS188	2012
• State Scholarship Foundation Award for excellent academic performance	2009 – 2010
• Thomaidio Award for excellent academic performance	2009 – 2010
• KARY Award for excellent academic performance	2009 – 2010
• Thomaidio Award for excellent academic performance	2008 – 2009
• KARY Award for excellent academic performance	2008 – 2009
• State Scholarship Foundation Award for excellent academic performance	2006 – 2007

- Chr. Papakyriakopoulos Award for excellent performance in mathematics 2006 – 2007
- KARY Award for excellent academic performance 2006 – 2007
- Chr. Papakyriakopoulos Award for excellent performance in mathematics 2005 – 2006
- Nikolaos Kritikos Award for excellent performance in mathematics 2005 – 2006
- Eurobank EFG Award for achieving the highest GPA score in my highschool 2005

Service

- Senior Area Chair for ICLR 2024 2024
- Senior Area Chair for NeurIPS, CVPR 2023 2023
- Award Committee for WACV 2023 2023
- DEI chair for WACV 2022 2022
- Program co-Chair for CVPR 2021 2021
- Area Chair for CVPR 2018, 2019, 2020, 2022, 2024, ICCV 2023, ECCV 2022 2018 – 2023
- Program Committee for CVPR, ECCV, ICCV, ICML, NeurIPS 2012– 2023

Talks

- Talk at the “DataComp” Workshop, ICCV 2023 10/2023
- Talk at the “CV4Metaverse” Workshop, ICCV 2023 10/2023
- Talk at the “Scholars & Big Models: How can Academics Adapt?” Workshop, CVPR 2023 06/2023
- Keynote at the “3D Scene Understanding” Workshop, CVPR 2023 06/2023
- Keynote at the “Compositional 3D Vision” Workshop, CVPR 2023 06/2023
- Keynote at the “Multi-Agent Behavior” Workshop, CVPR 2023 06/2023
- Keynote at the ScanNet Workshop, CVPR 2023 06/2023
- Keynote at the “Fine-grained Visual Categorization” Workshop, CVPR 2023 06/2023
- Keynote at the “3D Vision & Robotics” Workshop, CVPR 2023 06/2023
- Keynote at the “Learning 3D with Multi-View Supervision” Workshop, CVPR 2023 06/2023
- Invited talk at Google Research, virtual 05/2023
- Guest Lecture at Imagine Lab, virtual 11/2022
- Guest Lecture at CMU-RI, virtual 10/2022
- Guest Lecture at Stanford Vision & Learning Lab, virtual 09/2022
- AI Symposium, Milan, Italy 07/2022
- Distinguished Lecture Series, Imperial College London 12/2021
- Panelist at the “Industry and Computer Vision Panel” , ICCV 2021 10/2021
- Speaker at “Reviewing the Review Process” tutorial, ICCV 2021 10/2021
- Keynote Speaker at “Workshop on Distributed Smart Cameras”, ICCV 2021 10/2021
- Keynote Speaker at “Holistic Video Understanding” workshop, ICCV 2021 10/2021
- Keynote Speaker at “Computer Vision in Human-Robot Collaborative Factories of the Future” workshop, ICCV 2021 10/2021
- Keynote Speaker at “Assistive Computer Vision and Robotics ” workshop, ICCV 2021 10/2021
- Featured in “Humans of AI: Stories, not Stats” 09/2021

- Invited Speaker at MIA, MIT 09/2021
- Invited Speaker at UIUC’s computer vision lab, UIUC 05/2021
- Invited Speaker at Princeton’s computer vision lab, Princeton 04/2021
- Invited Speaker at ECE’s seminar series, CMU 04/2021
- Lecturer for SIGGRAPH Asia Course on PyTorch3D 12/2020
- Keynote Speaker at “Differentiable CV, graphics, and physics in ML ” workshop, NeurIPS 12/2020
- Invited Speaker at 3DGV Seminar 10/2020
- Featured in TWiML podcast 09/2020
- Invited Speaker at the Center for Research and Formation in AI, University de los Andes 09/2020
- Keynote Speaker at “Learning 3D Generative Models” workshop, CVPR 2020 06/2020
- Keynote Speaker at “Women in Computer Vision” workshop, CVPR 2020 06/2020
- Keynote Speaker at “Geometry Meets Deep Learning” workshop, ICCV 2019 10/2019
- Keynote Speaker at “Person in Context” workshop, ICCV 2019 10/2019
- Invited Speaker at “Scenes from Video” workshop, Spain 09/2019
- Keynote Speaker at “Benchmarking Multi-Target Tracking: How crowded can it get?” workshop, CVPR 2019 06/2019
- Keynote Speaker at “Deep Learning for Visual Navigation” workshop, CVPR 2019 06/2019
- Invited Speaker at “GRASP Lab Seminar”, UPenn 04/2019
- Invited Speaker at “Deep Learning for Robotics Summit”, ReWork 07/2018
- Invited Speaker at “Good Citizen” workshop, CVPR 2018 06/2018
- Speaker at “ Visual Recognition and Beyond” tutorial, CVPR 2018 06/2018
- Speaker at “ Instance-level Visual Recognition” tutorial, ICCV 2017 09/2017

Tutorial/Workshop Organization

- Workshop on “[Quo Vadis, Computer Vision?](#)”, ICCV 2023 2023
- Tutorial on “[Visual Recognition for Images, Video, and 3D](#)”, ICCV 2019 2019
- Tutorial on “[Visual Recognition and Beyond](#)”, CVPR 2019 2019
- Tutorial on “[Visual Recognition and Beyond](#)”, ECCV 2018 2018
- Tutorial on “[Visual Recognition and Beyond](#)”, CVPR 2018 2018
- Tutorial on “[Instance-level Visual Recognition](#)”, ICCV 2017 2017

Publications

- Pixel-Aligned Recurrent Queries for Multi-View 3D Object Detection
 Yiming Xie, Huaizu Jiang, Julian Straub* and Georgia Gkioxari*
International Conference on Computer Vision ICCV, 2023
- Omni3D: A Large Benchmark and Model for 3D Object Detection in the Wild
 Garrick Brazil, Abhinav Kumar, Julian Straub, Nikhila Ravi, Justin Johnson and
 Georgia Gkioxari
Computer Vision and Pattern Recognition CVPR, 2023

- Multiview Compressive Coding for 3D Reconstruction
Chao-Yuan Wu, Justin Johnson, Jitendra Malik, Christoph Feichtenhofer and Georgia Gkioxari
Computer Vision and Pattern Recognition CVPR, 2023
- BKinD-3D: Self-Supervised 3D Keypoint Discovery from Multi-View Videos
Jennifer J. Sun, Lili Karashchuk, Amil Dravid, Serim Ryou, Sonia Fereidooni, John Tuthill, Aggelos Katsaggelos, Bingni Brunton, Georgia Gkioxari, Ann Kennedy, Yisong Yue and Pietro Peronan
Computer Vision and Pattern Recognition CVPR, 2023
- Learning 3D Object Shape and Layout without 3D Supervision
Georgia Gkioxari, Nikhila Ravi and Justin Johnson
Computer Vision and Pattern Recognition CVPR, 2022
- Differentiable Stereopsis: Meshes from Multiple Views Using Differentiable Rendering
Shubham Goel, Georgia Gkioxari and Jitendra Malik
Computer Vision and Pattern Recognition CVPR, 2022
- 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 Dollár and Kaiming He
Computer Vision and Pattern Recognition CVPR, 2018

- Embodied Question Answering
Abhishek Das, Samyak Datta, Georgia Gkioxari, Stefan Lee, Devi Parikh and 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 Dollár, 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 and Yuandong Tian
International Conference on Learning Representations – Workshop Track ICLR W, 2018
- Mask R-CNN
Kaiming He, Georgia Gkioxari, Piotr Dollár and Ross Girshick
International Conference of Computer Vision ICCV, 2017
Best Paper Award (Marr Prize)
- Learn2Smile: Learning Non-verbal Interaction through Observation
Will Feng, Anitha Kannan, Georgia Gkioxari and Larry Zitnick
International Conference on Intelligent Robots and Systems IROS, 2017
Finalist for the JTCF Novel Technology Paper Award For Amusement Culture
- 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

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

Computer Skills

Deep Learning Libraries: PyTorch, TensorFlow, Caffe2, Caffe

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

Language Skills

Greek: native

English: Certificate of Proficiency in English, University of Michigan

German: Mittelstufe, Goethe Institut

French: Three years of studies