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	
CS 101 – Learning & 3D Caltech, Winter 2024	2024
EE/CS 148 – Large Language And Vision Models Caltech, Spring 2023 - 2024	2023-2024

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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 <mark>Graduate Student Instructor Outstanding Award</mark>	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 Dollàr and Kaiming He <mark>PAMI Mark Everingham Prize</mark>	2017
Honors/Awards/Nominations	
• Google Faculty Scholar (source)	2024
Amazon Research Award (source)	2024
• 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

Thomaidio Award for excellent academic performance

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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, ICML 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

Invited Speaker at NASA AMD AI Workshop, 2024	3/2024
• Keynote at IEEE AIxVR, 2024	1/2024
• Keynote at BMVC, 2023	11/2023
 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

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 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

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Publications (Google Scholar)

Objaverse-XL: A Universe of 10m+ 3D Objects Matt Deitke, Ruoshi Liu, Matthew Wallingford, Huong Ngo, Oscar Michel, Aditya Kusupati, Alan Fan, Christian Laforte, Vikram Voleti, Samir Yitzhak Gadre, Eli VanderBilt, Aniruddha Kembhavi, Carl Vondrick, Georgia Gkioxari, Kiana Ehsani, Ludwig Schmidt and Ali Farhadi <i>Neural Information Processing Systems – Dataset & Benchmarks</i>	NeurIPS D&B, 2023
	1 (cull 0 D ub) 2023
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 <i>Computer Vision and Pattern Recognition</i>	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 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 <i>Computer Vision and Pattern Recognition</i>	CVPR, 2020
Mesh R-CNN	
Georgia Gkioxari, Jitendra Malik and Justin Johnson International Conference on Computer Vision	ICCV, 2019

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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 <i>Computer Vision and Pattern Recognition</i>	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 <i>Conference on Robot Learning</i>	CoRL, 2018
Detecting and Recognizing Human-Object Interactions Georgia Gkioxari, Ross Girshick, Piotr Dollàr and Kaiming He <i>Computer Vision and Pattern Recognition</i>	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 Dollàr, Ross Girshick, Georgia Gkioxari and Kaiming He <i>Computer Vision and Pattern Recognition</i>	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 Dollàr and Ross Girshick International Conference on Computer Vision Best Paper Award (Marr Prize)	ICCV, 2017
Learn2Smile: Learning Non-verbal Interaction through Observation Will Feng, Anitha Kannan, Georgia Gkioxari and Larry Zitnick International Conference on Intelligent Robots and Systems Finalist for the JTCF Novel Technology Paper Award For Amusement Culture	IROS, 2017
Chained Predictions using Convolutional Neural Networks Georgia Gkioxari, Alexander Toshev and Navdeep Jaitly <i>European Conference on Computer Vision</i>	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 <i>Pattern Recognition Letters</i>	2016
Contextual Action Recognition with R*CNN Georgia Gkioxari, Ross Girshick and Jitendra Malik International Conference on Computer Vision	ICCV, 2015
Actions and Attributes from Wholes and Parts Georgia Gkioxari, Ross Girshick and Jitendra Malik International Conference on Computer Vision	ICCV, 2015
Finding Action Tubes Georgia Gkioxari and Jitendra Malik Computer Vision and Pattern Recognition	CVPR, 2015
Using <i>k</i> -poselets for detecting people and localizing their keypoints Georgia Gkioxari [*] , Bharath Hariharan [*] , Ross Girshick and Jitendra Malik <i>Computer Vision and Pattern Recognition</i> * authors contributed equally	CVPR, 2014
Articulated Pose Estimation using Discriminative Armlet Classifiers Georgia Gkioxari, Pablo Arbelaez, Lubomir Bourdev and Jitendra Malik <i>Computer Vision and Pattern Recognition</i>	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	

Last updated: April 29, 2024