

Nikolaos Karianakis

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| <i>Contact Information</i> | nikolaos.karianakis@microsoft.com (+1) 310 562 7962 https://karianakis.github.io/ | Microsoft Studio C 3640 150th Ave NE, Redmond, WA 98052 |
| <i>Experience</i> | Principal Research Manager (<i>June 2021 - present</i>) Principal Researcher (<i>Sep 2020 - May 2021</i>) Senior Researcher (<i>July 2017 - Aug 2020</i>) <ul style="list-style-type: none">• Deep Learning, Computer Vision for Aerial Imaging, AutoML, Synthetic Data. | Microsoft, Redmond Spectre AI, Mixed Reality |
| | Research Intern <i>June - September 2016</i> <ul style="list-style-type: none">• Person re-identification, Reinforcement learning. | Microsoft Research, Redmond Computer Vision & Machine Learning |
| | R&D Engineering Intern <i>June - September 2015</i> <ul style="list-style-type: none">• Algorithm development, framework implementation and simulation, real-environment testing with iCart mini. Q reinforcement learning and deep learning for autonomous navigation. | Sony, Tokyo Intelligent System Technology Department |
| | Research Intern <i>July - September 2014</i> <ul style="list-style-type: none">• Algorithm development for generic object detection, which builds on top of ML boosting and deep convolutional features. | NASA's Jet Propulsion Laboratory, Pasadena Computer Vision & Machine Learning |
| | Research Intern <i>July - September 2013</i> <ul style="list-style-type: none">• RBMs, occlusion detection, depth estimation. | Peking University, Beijing Institute of Digital Media, Computer Science |
| | Graduate Research Assistant <i>September 2011 - June 2017</i> <ul style="list-style-type: none">• Deep Learning, Computer Vision. Learning and engineering representations and deep architectures for large-scale recognition and wide-baseline correspondence. Advisor: Stefano Soatto. | University of California, Los Angeles Computer Science |
| | Research Assistant <i>November 2010 - September 2011</i> <ul style="list-style-type: none">• Computer Vision. Image segmentation, TV inpainting, image stitching. Advisor: Petros Maragos. | National Technical University of Athens Electrical & Computer Engineering |
| <i>Education</i> | University of California, Los Angeles, USA Master's [2011-2014] & Ph.D. [2011-2017] in Computer Science <ul style="list-style-type: none">• Area: Computer Vision & Machine Learning.• Dissertation: Sampling Algorithms to Handle Nuisances in Large-Scale Recognition. | |
| | National Technical University of Athens, Greece Diploma in Electrical & Computer Engineering <ul style="list-style-type: none">• Major: Computer Science & Computer Engineering.• Minors: Electronics, Systems (Signals / Control / Robotics). | |
| <i>Expertise</i> | Deep Learning, Computer Vision, Machine Learning, LLM, Algorithms. | |
| <i>Technical Skills</i> | C/C++, Python, Lua, Matlab, ROS, Haskell, ML, Prolog, Assembly x86/AVR, CUDA, L ^A T _E X, Caffè, Torch, MatConvNet, PyTorch, TensorFlow, Theano. | |