

Nikolaos Karianakis

<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. Research Intern <i>June - September 2016</i> <ul style="list-style-type: none">Person re-identification, Reinforcement learning. R&D Engineering Intern <i>June - September 2015</i> Department <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. 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. Research Intern <i>July - September 2013</i> <ul style="list-style-type: none">RBM, occlusion detection, depth estimation. 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. 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.	
<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, Caffe, Torch, MatConvNet, PyTorch, TensorFlow, Theano.	