

# Xiaohan Fei

	<div>UCLA VisionLab, Engineering VI #386    Phone: (310) 890-8064 University of California, Los Angeles    E-mail: feixh@cs.ucla.edu Los Angeles, CA 90095, USA    Website: <a href="http://feixh.github.io">http://feixh.github.io</a></div>	
EDUCATION	<div>UNIVERSITY OF CALIFORNIA, LOS ANGELES    Fall 2014-present <b>Ph.D. in Computer Science</b> Supervisor: Prof. Stefano Soatto Research Group: UCLA Vision Lab (<a href="http://vision.ucla.edu">http://vision.ucla.edu</a>) GPA: 3.88/4.0</div> <div>ZHEJIANG UNIVERSITY    Fall 2010-Spring 2014 <b>B.Eng. in Information and Communication Engineering</b> Major: Information and Communication Engineering Minor: Advanced honor Class of Engineering Education (ACEE), Chu-Kechen College GPA: 3.98/4.0(92.35/100) Title of Undergraduate Thesis: Wide-baseline feature matching for panoramic images Undergraduate Thesis Supervisor: Prof. Zhiyu Xiang</div>	
RESEARCH EXPERIENCE	<div>NVIDIA RESEARCH, SANTA CLARA, CALIFORNIA    Summer 2018 <b>Research Intern</b> Worked on unsupervised learning of structural representation for 3D objects.</div> <div>META COMPANY, SAN MATEO, CALIFORNIA    Summer 2017 <b>Research Intern</b> Developed a tightly-coupled visual-inertial SLAM algorithm for Augmented Reality.</div> <div>UNIVERSITY OF CALIFORNIA, LOS ANGELES    Fall 2014-present <b>Graduate Student Researcher</b> Conducting research activities under the supervision of Prof. S. Soatto. Main projects include: image based re-localization, visual-inertial sensor fusion and object-level (semantic) mapping.</div>	
AWARDS & DISTINCTIONS	<div><b>2019:</b> <i>Finalist</i> of ICRA Best Paper Award in Robot Vision. <b>2013:</b> <i>Meritorious Winner</i> of Mathematical Contest in Modeling (top 15% of 6000 teams worldwide) <b>2012:</b> National Scholarship (highest honor for undergraduates in China)</div>	
PUBLICATIONS	<div>[1] X. Fei, A. Wong, and S. Soatto. Geo-Supervised Visual Depth Prediction. In <i>International Conference on Robotics and Automation (ICRA)</i>, 2019. (<b>best robot vision paper finalist</b>) Also in <i>IEEE Robotics and Automation Letters (RA-L)</i>. [2] X. Fei, S. Soatto. Visual-Inertial Object Detection and Mapping. In <i>European Conference on Computer Vision (ECCV)</i>, 2018. [3] J. Dong*, X. Fei*, and S. Soatto. Visual-Inertial-Semantic Scene Representation for Object Detection. In <i>Computer Vision and Pattern Recognition (CVPR)</i>, 2017. [4] X. Fei, K. Tsotsos, and S. Soatto. A Simple Hierarchical Pooling Data Structure for Loop Closure. In <i>European Conference on Computer Vision (ECCV)</i>, 2016.</div>	
PROFESSIONAL SERVICES	<div>Reviewer of International Conference on Intelligent Robots (IROS) 2019 International Conference on Computer Vision (ICCV) 2017 &amp; 2019 International Journal of Medical Robotics and Computer Assisted Surgery (IJMRCAS)</div>	
TALKS & WORKSHOPS	<div><i>Inertial-aided Visual Perception for Localization, Mapping, and Detection</i>, at Magic Leap, 2019. <i>Visual-Inertial-Semantic Scene Representation</i>, at Bridges to 3D Workshop, CVPR 2017.</div>	
TEACHING	<div>CS M152A Introductory Digital Design Laboratory, Spring 2018.</div>	
RELEVANT COURSEWORK	<div><b>University of California, Los Angeles:</b> Machine Perception (Prof. S. Soatto), Convex Optimization (Prof. L. Vandenberghe), Calculus of Variations (Prof. L. Vese), Vision as Bayesian Inference (Prof. A. Yuille), Applied Probability (Prof. Y. Wu), Theoretical Statistics (Prof. A. Amini), Numerical Analysis (Prof. J. Teran), Machine Learning Algorithm (Prof. M. Sarrafzadeh) <b>Zhejiang University:</b> Computer Vision (Prof. Z. Xiang), Spectral Analysis of Signals (Prof. X. Gong), Information Theory (Prof. Z. Zhang), Mathematical Modeling (Prof. Q. Yang)</div>	