

Xiaohan Fei

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EDUCATION	UNIVERSITY OF CALIFORNIA, LOS ANGELES Ph.D. in Computer Science Supervisor: Prof. Stefano Soatto Research Group: UCLA Vision Lab (http://vision.ucla.edu) GPA: 3.88/4.0 ZHEJIANG UNIVERSITY B.Eng. in Information and Communication Engineering 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	Fall 2014-present Fall 2010-Spring 2014
RESEARCH EXPERIENCE	NVIDIA RESEARCH, SANTA CLARA, CALIFORNIA Research Intern META COMPANY, SAN MATEO, CALIFORNIA Research Intern Developed a tightly-coupled visual-inertial SLAM algorithm for Augmented Reality. UNIVERSITY OF CALIFORNIA, LOS ANGELES Graduate Student Researcher Conducting research activities under the supervision of Prof. S. Soatto. Main projects include: visual place recognition, fast image based re-localization and visual-inertial sensor fusion for navigation, semantic mapping & object detection. ZHEJIANG UNIVERSITY, CHINA Undergraduate Thesis Developed a Structure from Motion system for panoramic images captured by a camera mounted on a vehicle where scale, orientation and planar motion constraints are explored to improve wide-baseline feature matching.	Summer 2018 Summer 2017 Fall 2014-present Fall 2013-Spring 2014
AWARDS & DISTINCTIONS	2013: Meritorious Winner of Mathematical Contest in Modeling (top 15% of 6000 teams worldwide) 2012: National Scholarship (highest honor for undergraduates in China)	
PUBLICATIONS	[1] X. Fei, A. Wong, and S. Soatto. Geo-Supervised Visual Depth Prediction. Under review. [2] X. Fei, S. Soatto. Visual-Inertial Object Detection and Mapping. To appear ECCV, 2018. [3] J. Dong*, X. Fei*, and S. Soatto. Visual-Inertial-Semantic Scene Representation for Object Detection. CVPR, 2017. [4] X. Fei, K. Tsotsos, and S. Soatto. A Simple Hierarchical Pooling Data Structure for Loop Closure. ECCV, 2016.	
PROFESSIONAL SERVICES	Reviewer of ICCV 2017, International Journal of Medical Robotics and Computer Assisted Surgery (IJMRCAS).	
TALKS & WORKSHOPS	Visual-Inertial-Semantic Scene Representation, Bridges to 3D Workshop, CVPR 2017	
TEACHING	Spring 2018, CS M152A Introductory Digital Design Laboratory	
RELEVANT COURSEWORK	University of California, Los Angeles: 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) Zhejiang University: Computer Vision (Prof. Z. Xiang), Spectral Analysis of Signals (Prof. X. Gong), Information Theory (Prof. Z. Zhang), Mathematical Modeling (Prof. Q. Yang)	