# XIN'GAN WANG

**Address:** 1623 Selby Ave, Los Angeles, CA **Phone:** (310) 528-5293 **Email:** xinganwang@ucla.edu

## ■ EDUCATION

**University of California, Los Angeles**                                  *Sept. 2016 – Present*
*Master of Science in Computer Science*
**Course Highlights**
- Database Systems, Introduction to Data Mining

**University of Science and Technology of China**                         *Sept. 2012 – June. 2016*
*Bachelor of Science in Applied Physics, Dual-Degree in Computer Science*
**Cumulative GPA:** 3.76/4.3                       **Major GPA:** 3.87/4.3
**Awards:** Two year of National Encouragement Scholarship
**Course Highlights:**
- *Computer Science:* Principles of Compiler, Data Structure, Foundations of Algorithm, Operating System, Computer Architecture, Principles of Artificial Intelligence, Introduction to Database Systems, C++
- *Math:* Mathematical Analysis, Linear Algebra, Function of Complex Variable A, Probability and Statistics, Equations of Mathematical Physics

## ■ EXPERIENCE

**Affine Optical Flow Feature Tracker**                              **DJI (Shenzhen, China)**
Software Engineer Intern                                             *June 2016 – Aug. 2016*
- Implemented the Affine Optical Flow algorithm with modification.
- Rededuced the equations with practical restrictions to increase robustness and performance.
- Realized feature tracking with long distance (>100m).
- Realized long distance depth estimation.
- Accomplished work independently under guidance of a senior software engineer.

**3D Descriptors Design and Evaluation**                    **The University of Western Australia**
Advisor: Professor Du Huynh                                         *July 2015 - Sept. 2015*
- Designed a novel 3D point cloud descriptor for 3D object recognition.
- Independently implemented and evaluated the descriptor with datasets in C++ and MATLAB.
- Compared my descriptor with state-of-art descriptors in Point Cloud Library and obtained competitive performance.

**Real-Time Robot Operating System**           **University of Science and Technology of China**
Advisor: Professor Kai Xing                                         *April 2015 - June 2015*
- Developed traditional ROS to a real-time OS based on Real-Time Application Interface.
- Studied the source codes of Linux, ROS, RTAI, and Boost/thread.
- Developed a real-time thread lib for the RTROS module based on RTAI-Linux for real-time performance.

## ■ SKILL
- Programming languages: Python, C/C++, Swift, PHP, HTML, CSS, JavaScript.
- Development skills: iOS, Web, MySQL.

## ■ ACTIVITY
- Member of Linux User Group in USTC, in charge of the BBS website (bbs.ustclug.org).
- Vice President of University Debate Team.