

Chi Zhang

GRADUATE, COMPUTER SCIENCE, UNIVERSITY OF CALIFORNIA - LOS ANGELES

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EDUCATION	<p>University of California - Los Angeles, Los Angeles, U.S. <i>Master of Science</i>, Computer Science <i>Sept. 17 - June 19 (Expected)</i> Advisor: Prof. Song-Chun Zhu GPA: 4.00/4.00 (Overall)</p> <p>Zhejiang University, Hangzhou, China <i>Bachelor of Engineering</i>, Computer Science <i>Sept. 13 - June 17</i> GPA: 3.93/4.00 (Overall) Rank: 1/17</p>
RESEARCH INTERESTS	Reinforcement Learning, Robotic Learning and Computer Vision
RESEARCH EXPERIENCE	<p>Graduate Student Researcher <i>Center for Vision, Cognition, Learning and Autonomy, UCLA</i> Advisor: Prof. Song-Chun Zhu <i>Sept. 17 - Present</i></p> <ul style="list-style-type: none">- Designed tasks and a real-time 3D rendering algorithm for robotic learning- Developed a general method for mapping forces onto objects- Devised an algorithm that combines reinforcement learning with And-Or Graph models for efficient learning <p>Research Intern <i>Hong Kong University of Science and Technology</i> Advisor: Prof. Dit-Yan Yeung <i>Sept. 16 - March 17</i></p> <ul style="list-style-type: none">- Introduced the problem of tracking via reinforcement learning for quadcopters and developed an algorithm to solve it <p>Research Assistant <i>State Key Lab of CAD & CG, Zhejiang University</i> Advisor: Prof. Deng Cai <i>March 15 - June 16</i></p> <ul style="list-style-type: none">- Used Deep Learning for real-time automatic number plate detection- Devised a new algorithm for community-based question answering
PREPRINTS	Siyi Li, Tianbo Liu, Chi Zhang , Dit-Yan Yeung, Shaojie Shen, Learning Unmanned Aerial Vehicle Control for Autonomous Target Following, arXiv: 1709.08233
JOURNALS	Zheqian Chen, Chi Zhang , Zhou Zhao, Deng Cai, Question Retrieval for Community-based Question Answering via Heterogeneous Network Integration Learning, <i>Neurocomputing</i> , Volumn Neurocomputing, Volume 285, Pages 117-124
PATENTS	Xiangdong Li, Shihong Lv, Yikun Wang, Xiaowo Sun, Chi Zhang , A Method of Exact 3D Modeling Based on Natural Gestures via Data Gloves. Publication number: CN104778746 A. Shared owners, names listed without order.

PROFESSIONAL EXPERIENCE	Machine Learning Engineer <i>Didi Research Institute</i> <i>Advisor: Zenan Meng</i> <i>April 17 - June 17</i> <ul style="list-style-type: none"> - Improved SLAM algorithms for high-fidelity mapping for autonomous vehicles
	Software Development Coordinator <i>Windmill Finance</i> <i>Advisor: Dongming Xia</i> <i>March 16 - Sept. 17</i> <ul style="list-style-type: none"> - Coordinated APP development progress in a FinTech start-up with its foreign collaborators
HONORS & SCHOLARSHIPS	Excellent Student Scholarship , Zhejiang University, 2013 - 2016 Outstanding Student Scholarship , Zhejiang University, 2013 - 2016 First-class Academic Excellence Scholarship , Zhejiang University, 2013 - 2016 Social Practice Excellence Scholarship , Zhejiang University, 2015 First-class Research and Innovation Scholarship , Zhejiang University, 2015 Chinese Talent Scholarship , Asahi Kasei, 2016 Outstanding University Student Scholarship , Baosteel Group, 2016
AWARDS & PRIZES	Meritorious Winner of Mathematical Contest in Modeling , 2015 Second Prize in Physics Innovation Competition , Zhejiang Province, 2014 Second Prize in Extracurricular Academic Work Competition , Zhejiang University, 2014 Five Star Volunteer , Zhejiang University, 2016
SELECTED PROJECTS	MXNet <i>Hong Kong University of Science and Technology</i> <i>Advisor: Xingjian Shi</i> <i>Sept. 16 - Present</i> <ul style="list-style-type: none"> - Flexible and efficient machine learning library for heterogeneous distributed systems - Regular contributor Quadrotor Reinforcement Learning for Tracking <i>Hong Kong University of Science and Technology</i> <i>Advisor: Prof. Dit-Yan Yeung and Siyi Li</i> <i>Sept. 16 - Nov. 16</i> <ul style="list-style-type: none"> - Combined PID control loop and reinforcement learning algorithms to train a quadrotor to autonomously learn the concept of tracking - Paper submitted to <i>ICRA 2018</i> Real-Time Automatic Number Plate Detection <i>Zhejiang University</i> <i>Advisor: Prof. Deng Cai</i> <i>Feb. 16 - June 16</i> <ul style="list-style-type: none"> - Trained a CNN backbone with YOLOs detection layer for fast and accurate number plate detection and regression - Incorporated into an antonomous vehicle system - Part of <i>National Program on Key Basic Research Project of China</i> (973 Program) Exact 3D Modeling Based on Natural Gestures via Data Gloves <i>Zhejiang University</i> <i>Advisor: Prof. Xiangdong Li and Sihong Lv</i> <i>Dec. 14 - April 15</i> <ul style="list-style-type: none"> - Designed and manufactured a pair of data gloves for gesture detection via Aduirno - Collected data and built a Random Forest ensemble using C# and Python - Patented

COMPUTER
SKILLS

Languages: C/C++, Python, Matlab, L^AT_EX
Frameworks: MXNet, PyTorch

SERVICE

Member of *Forum for American/Chinese Exchange at Stanford* (FACES), Zhejiang University
Team leader of *Department of Outgoing Global Community Development Program*, AIESEC
Member of *The Internet Association of Zhejiang University*
Leader of a voluntary teacher group to Yongle Primary School