CHI ZHANG

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EDUCATION

CKC Honor College   2013.9 - 2017.6
B.Eng. (Honors) in Computer Science and Technology
Zhejiang University
➢ GPA: 3.93/4.00 Rank: 1/17

SELF-PACED COURSES

Machine Learning (CS229)   2014.5
Stanford
➢ Stanford Online Course

Neural Networks for Machine Learning (CSC321)   2015.6
University of Toronto
➢ University of Toronto Online Course

Convolutional Neural Networks for Visual Recognition (CS231n)   2015.7
Stanford
➢ Stanford Online Course

Deep Learning for Natural Language Processing (CS224d)   2015.8
Stanford
➢ Stanford Online Course

Advanced Topics in Reinforcement Learning   2016.3
University College London
➢ University College London Online Course

Convex Optimization (EE364a & EE364b)   2016.11
Stanford
➢ Stanford Online Course

RESEARCH INTERESTS

Machine Learning
➢ Deep Reinforcement Learning
➢ Unsupervised Feature Learning

Computer Vision
➢ Recognition, Detection and Tracking

RESEARCH EXPERIENCE

Research Assistant   2015.3 - 2016.7
State Key Lab of CAD&CG, Zhejiang University
➤ Real-Time Automatic Number Plate Detection
➤ Community-Based Question Answering
➤ Advisor: Prof. Deng Cai

Research Intern   2016.7 - 2016.9
Center for Vision, Cognition, Learning, and Autonomy, UCLA
➤ Task Design and Real-Time 3D Scene Rendering for Robot Learning
➤ Advisor: Prof. Song-Chun Zhu

Research Intern   2016.9 - 2017.3
Hong Kong University of Science and Technology
➤ Quadrotor Reinforcement Learning for Tracking
➤ Visual Tracking
➤ Advisor: Prof. Dit-Yan Yeung

PROFESSIONAL EXPERIENCE

Software Development Coordinator   2016.3 - present
Windmill Finance
➤ Coordinate APP development progress in a FinTech start-up with its foreign collaborator

Machine Learning Engineer   2017.4 - present
Didi Research Institute
➤ SLAM and perception for autonomous vehicles

PUBLICATION

CONFERENCES
Li, S., Yeung, D., **Zhang, C**. **Learning Unmanned Aerial Vehicle Control for Autonomous Target Following**. *IJCAI* 2017. Under review.

JOURNALS
Chen, Z., **Zhang, C.**, Zhao, Z., Cai, D. **Question Retrieval for Community-based Question Answering via Heterogeneous Network Integration Learning**. *Neurocomputing. arXiv: 1611.08135*.

PATENTS
A Method of Exact 3D Modeling Based on Natural Gestures via Data Gloves. Publication number: CN104778746 A.

SELECTED PROJECTS

MXNet   2016.9 - present
➤ Flexible and efficient machine learning library for heterogeneous distributed systems
➤ Regular contributor

Perceive, Attend and Memorize 2016.9 - 2017.3
➢ Visual tracker that incorporates detection, attention mechanism and external memory
➢ Ongoing research; paper to be submitted

Quadrotor Reinforcement Learning for Tracking 2016.9 - 2016.11
➢ Combined PID control loop and reinforcement learning algorithms to train a quadrotor to autonomously learn the concept of tracking
➢ Paper submitted to IJCAI 17

Real-Time Automatic Number Plate Detection 2016.2 - 2016.6
➢ Trained a CNN backbone with YOLO's detection layer for fast and accurate number plate detection and regression
➢ Incorporated into a drive-less vehicle system
➢ Part of *National Program on Key Basic Research Project of China (973 Program)*

Exact 3D Modeling Based on Natural Gestures via Data Gloves 2014.12 - 2015.4
➢ Designed and manufactured a pair of data gloves for gesture detection via *Adruino*
➢ Collected data and built a *Random Forest* ensemble using C# and Python
➢ Second Prize in the *Extracurricular Academic Work Competition*, Zhejiang University
➢ Patented

HONORS/AWARDS

Honors & Scholarships
➢ Excellent Student Scholarship, Zhejiang University (3 years in a row)
➢ Outstanding Student Scholarship, Zhejiang University (3 years in a row)
➢ First-class Academic Excellence Scholarship, Zhejiang University (3 years in a row)
➢ Social Practice Excellence Scholarship, Zhejiang University
➢ First-class Research and Innovation Scholarship, Zhejiang University
➢ Chinese Talent Scholarship, Asahi Kasei (single recipient in the honor college)
➢ Outstanding University Student Scholarship, Baosteel Group (6 recipients in 20,000 students)

Awards & Prizes
➢ Meritorious Winner of the 2015 Mathematical Contest in Modeling
➢ Second Prize in the Physics Innovation Competition of Zhejiang Province
➢ Second Prize in the Extracurricular Academic Work Competition, Zhejiang University
➢ Five Star Volunteer of Zhejiang University (more than 250 hours of voluntary work)

MISCELLANEOUS

Programming
➢ Languages: C/C++, Matlab and Python
➢ Frameworks: Theano and MXNet

Interests
➢ Voluntary work related to education and social welfare

Service

➢ Senior member of *The Forum for American/Chinese Exchange at Stanford (FACES)*, Chapter of 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