YANG CHEN

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https://github.com/Yan-Cy

EDUCATION

Zhejiang University Hangzhou, China
B.Eng. in Computer Science *Aug 2013 - Jun 2017*

· Member of Chu Kochen Honors College
· Overall GPA: 3.80/4 (rank top 5% of 215)
· Visiting student at Kings Colleges, London, in Summer 2014

RESEARCH EXPERIENCE

Carnegie Mellon University Pittsburgh, USA
Research Assistant to Dr. Alexander Hauptmann *Jul 2016 - Mar 2017*

TRECVid Surveillance Event Detection

- This particular evaluation focused on detecting events captured on airport surveillance video
- Used faster-rcnn algorithm with hard negative mining on SED dataset, leading to results 15% better than the existing SED 2016 champion
- Currently making efforts to introduce points of articulation to the Convolutional Neural Network, so as to improve accuracy
- Code Link: https://github.com/Yan-Cy/py-faster-rcnn-sed

Zhejiang University, DCD Lab Hangzhou, China
Research Assistant to Prof. Fei Wu *Feb 2015 - Jul 2016*

Fine-grained Invasive Species Classification

- National Basic Research Program
- Used faster-rcnn algorithm, together with resnet-50 and transfer learning, to help local customs authority identify the varying morphs of invasive species, such as the cockroach
- Built a website system via python Flask framework; wrote both backend and frontend
- System is now successfully being utilized by Ningbo customs authority of Zhejiang Province, China

Scene Recognition & Object Localization

- Implemented a proposed algorithm using convolutional neural networks and their receptive fields to do both scene recognition and object localization in a single forward-pass
- Code Link: https://github.com/Yan-Cy/caffe-test

Zhejiang University, ArchLab Hangzhou, China
Research Assistant to Prof. Wenzhi Chen *Feb 2015 - Feb 2016*

Pipelined CPU & Computer System Design

- Designed a pipelined CPU on the Sword FPGA board (made by ArchLab of Zhejiang University) through use of verilog, and wrote an accompanying command-line system and 2048 game
- Code Link: https://github.com/Yan-Cy/CPU-Project

GAMING & ENGINEERING PROJECT EXPERIENCE

Racing Game Zhejiang University
Computer Graphics Course Project *Oct 2015*

· Developed a website racing game using WebGL, together with ray tracing and other computer graphics rendering algorithms
· Code Link: https://github.com/Nebula1084/Trenchant

Electric Skateboard & Quadrotor & Flight Controller Design Zhejiang University
Student Research Training Project *Oct 2015 - May 2016*

· Built a quadrotor using Arduino, and wrote the PCD algorithm to maintain balance
· Deployed Arduino to modify my skateboard into a power-driven skateboard; experimented with voice control module, though ultimately opted out for safety reasons

JavaScript Interpreter Zhejiang University
Principle of Programming Language Course Project *Dec 2015*

· Made a JavaScript interpreter in C++, free of 3rd-party dependencies
· Code Link: https://github.com/PorridgeEater/SJI

LEADERSHIP EXPERIENCE

Student Union of College of Computer Science Zhejiang University
Vice President *Hangzhou, China, 2015*

· Organized College Basketball Tournament, Freshmen Orientation Session, and a Wecare Computer Maintenance Volunteer Group

Robot Club Zhejiang University
Vice President *Hangzhou, China, 2015*

· Organized general club meetings, as well as regular "Clean Cup" robot competitions

AWARDS & HONORS

- **ACM-ICPC Zhejiang Province Contest (Silver Medal)** *2015*
- **Excellent Student Awards of Zhejiang University (1^{st} Prize)** *2014 & 2015*
- **Scholarship for Elite Students in Basic Science of ZJU (1^{st} Prize, top 5%)** *2014 & 2015*
- **Scholarship for Outstanding Students of ZJU (2^{nd} Prize, top 10%)** *2014 & 2015*
- **CCF National Olympiad in Informatics in Provinces (1^{st} Prize)** *2013*
- **CCF National Olympiad in Informatics (Bronze Medal)** *2012*

ADDITIONAL INFORMATION

Spoken Languages	Chinese(Native), English(Fluent), Japanese(Beginner)
Computer Languages	Python, Java, C/C++, Matlab, Javascript, Verilog
Frameworks	Caffe, OpenCV, OpenGL, Qt, node.js, Arduino
Tools	Vim, LaTeX, Git

RESEARCH INTEREST

Artificial Intelligence, Computer Vision, Machine Learning, Computer Graphics, Computer Architecture