

Zhangsihao Yang

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Education Background

08/2017-05/2019 Carnegie Mellon University(CMU)

Master of Science in Mechanical Engineering

• Advisor: Levent Burak Kara

QPA: 3.96/4.00 TOEFL: 105 GRE: Verbal 152 Quantitative 170 Analytical Writing 3.5

09/2012-07/2016 Zhejiang University (ZJU)

Energy & Environment Systems Engineering-Bachelor of Engineering

GPA: 3.92/4.00

Professional Experience

08/2017-10/2018 Deep Learning on 3D Geometry

Research Assistant

- Functionally-Based Conceptual Design Through Data-Driven Shape Analysis for DARPA FunDesign.
- Advised by Levent Burak Kara.

09/2015-06/2016 Combustion Characteristics of Oxygen Containing Liquid Biofuels

Researcher

- Simulated the laminar flame speed of liquid biofuels via CHEMKIN; measured the laminar flame speed by heat flux method
- Analyzed the stimulated data and experimental data; finished a 20,000-word paper

06/2014-08/2015 Photo-catalysis Sewage Treatment System

General System Designer

- Used BiOBr as the photo-catalyst and recycle it by free settling
- Designed the dynamical system and automatic control system to monitor sewage in real time so as to control the sewage flow automatically and to save manpower
- Won the second prize in the Energy Saving & Emission Reduction Contest for National College Students
- Obtained a Chinese patent with this system (patent number: 201510471612)

09/2013-09/2014 Industrial Exhaust Gas Treatment by Plasma Technology

(Supported by Students Research Training Program)

Team Leader

- Researched the application, main scientific problems, mechanism and degradation process of volatile organic compounds (VOCs) purification treatment by low-temperature plasma technology; won the Excellent Rating

Publication

2018

Zhangsihao Yang, Haoliang Jiang, Lan Zou, “3D Conceptual Design Using Deep Learning”, CVC 2019.

Wentai Zhang, Haoliang Jiang, **Zhangsihao Yang**, Soji Yamakawa, Kenji Shimada, Levent Burak Kara, “Data-driven Upsampling of Point Clouds”, submitted to Computer-Aided Design.

Wentai Zhang, Jonelle Z. Yu, Fangcheng Zhu, Yifang Zhu, **Zhangsihao Yang**, Nurcan Gecer Ulu, Batuhan Arisoy, Levent Burak Kara, “High Degree of Freedom Hand Pose Tracking Using Limited Strain Sensing and Optical Training”, submitted to JCISE.

Academic Services

09/2018-12/2018 Course Assistant

- Artificial Intelligence and Machine Learning for Engineering Design (24-787), Fall 2018.
- Design an assignment to implement GAN

Courses

11785 Introduction to Deep Learning

10703 Deep Reinforcement Learning and Control

16720 Computer Vision

24787 Artificial Intelligence and Machine Learning for Engineering Design

Extracurricular Activity

07/2016-07/2016 “Innovation and Entrepreneurship” Summer Camp

Team Leader of ZJU

- Wrote the parts of budget and cost analysis of the business plan
- Finished the business plan with students from The Hong Kong Polytechnic University and National Chengchi University

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12/2015-01/2016

Academy Presidents' Forum of ZJU

Organizer

- Booked event fields in advance; contacted related personnel and arranged the forum schedule; listened the suggestions from every academy president and summarized them for school leaders so as to solve the students' problems in daily life and in study

08/2013-08/2013

Visiting Group to the University of Oxford and the University of Cambridge

Member

- Took classes to learn the history of the United Kingdom; visited the campuses; lived in the dormitory of the University of Oxford and the University of Cambridge

Awards

06/2016

Title of ZJU Outstanding Graduate

11/2015

Title of Merit Student; Third-class Academic Scholarship; Third-class Merit Scholarship

08/2015

Second prize in the National University Student Social Practice and Science Contests on Energy Saving & Emission Reduction

11/2014

First-class CEN Kefa Scholarship (the highest honor for students at College of Energy Engineering); Title of Merit Student; Second-class Academic Scholarship; Second-class Merit Scholarship

11/2013

Title of Merit Student; First-class Academic Scholarship; First-class Merit Scholarship