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Kuo-Hao Zeng

Seeking a PhD Placement by September, 2018 - 24 years old

Education

2016–2017 Stanford University - Computer Science Major, Computer Vision, Machine Learning.

Visiting Student in Vision Lab Supervised by Dr. Juan Carlos

2014–2017 National Tsing Hua University - Electrical Engineering Major, Computer Vision.

Master Student in Vision Science Lab

Supervised by Prof. Min Sun

GPA: 4.3/4.3 Rank: Top 1%

Member of Phi Tau Phi Scholastic Honor Society of the Republic of China

2010–2014 National Sun Yet-Sen University - Mechanical and Electromechanical Engineering Major.

GPA: 88.46/100, 3.64/4.0 (overall); 88.73/100, 3.7/4.0 (major); 93.29/100, 3.9/40 (last-60)

Rank: Top 12.5% (7th/56)

Publication

Conference **Kuo-Hao Zeng**, Tseng-Hung Chen, Ching-Yao Chuang, Yuan-Hong Liao, Juan Carlos Niebles, Min Sun, "Leveraging Video Descriptions to Learn Video Question Answering". *AAAI17*'.

Kuo-Hao Zeng, Tseng-Hung Chen, Juan Carlos Niebles, Min Sun, "Title Generation for User Generated Videos". *ECCV16'*.

Kuo-Hao Zeng, Yen-Chen Lin, Ali Farhadi, Min Sun, "Semantic Highlight Retrieval". ICIP16'.

Workshop Tseng-Hung Chen, **Kuo-Hao Zeng**, Wan-Ting Hsu, Min Sun, "Video Captioning via Sentence Augmentation and Spatio-Temporal Attention". *ACCV16*'.

Kuo-Hao Zeng, Yen-Chen Lin, Ali Farhadi, Min Sun, "Viralets: Learning from Viral Videos to Identify Semantic Highlight in Personal Videos". *CVPR15*'.

Journal Min Sun, **Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, "Semantic Highlight Retrieval and Term Prediction". *TIP*.

Honors and Awards

2016 Student Travel Award for ICIP, IEEE.

Member of Phi Tau Phi Scholastic Honor Society of the Republic of China, *Taiwan*. Top 3% Students per year in College of EECS at NTHU.

Digital Drift Best Paper on Deep Learning for Visual Analysis - 2nd place, *CVGIP*. Paper Title: BRAIN4VQA: Video Question Anwsering via Deep Networks.

2015 NovaTek Scholarship, NovaTek.

Best Paper Award in 28th IPPP Conference on CVGIP, CVGIP.

Paper Title: Semantic Highlight Detection in Viral Videos.

- 2014 MediaTek summer intern final group project presentation 2nd prize, MediaTek.
- 2013 **NSYSU Undergraduate Outstanding Project**, *NSYSU*.
- 2010 2014 Presidential Awards(amount to 5 semesters), NSYSU.

Awarded to top 5% of students in each department of National Sun Yat-Sen University for each semester.

Research Experience

2016–2017 Vision Lab, Stanford University, Computer Vision, Machine Learning, Deep Learning.

Risky Assessment in Accident Video.

Video Anticipation.

2014–2017 Vision Science Lab, NTHU, Computer Vision, Machine Learning, Deep Learning.

Video Description, Question Answering and Dialog System.

Large Scale Video Data Collection.

Video Event Recognition, Summarization.

Bio-Medical Micro Electro Mechanical Systems Lab, NSYSU, Signal Processing, Statistics. 2013-2014

The Correlation between Heart Rate Variability and Apnea-Hypopnea Index is BMI Dependent.

The Relation between Vertical Ground Reaction Force and Heart Rate during Treadmill Running.

Experience

Fall 2015 **Teaching Assistant of Computer Vision**, NTHU (Graduate School), Hsinchu, Taiwan.

Matlab/Python environments

Spring 2015 **Teaching Assistant of Signal and System**, NTHU, Hsinchu, Taiwan.

July- MediaTek Summer Intern, MediaTek, Hsinchu, Taiwan.

September Developping a "Control and Command System" demonstrator (Hardware and Software) for Fiber-optic

2014 communication IC and Verification. C++/Perl/Matlab environments

July- HIWIN Summer Intern, HIWIN, Taichung, Taiwan.

September Verify and Test Harmonic Drive.

2013 Matlab environment

Programming Skills

Languages C, C++, C#, Python, Perl

Library MPI, OpenMP, Pthread, Cuda, OpenCV, LIBSVM, Caffe, TensorFlow

Simulation Matlabe, HSPICE

Other LATEX

Selected Term Project

Project Computer Vision for Visual Effects: https://sites.google.com/site/computervisionvisualeffectsg11/home.

Challenge Microsoft - MSR Video to Language Challenge: http://ms-multimedia-challenge.com/leaderboard.

Core Course and Grades

ML Introduction to Optimization, NSYSU, Kaohsiung, Taiwan.

Introduction to Neural Networks, NSYSU, Kaohsiung, Taiwan.

99/100

Machine Learning Theory, NTHU, Hsinchu, Taiwan.

A+/A+

Advanced Machine Learning Theory, NCTU, Hsinchu, Taiwan.

A+/A+

Neural Network, NTHU, Hsinchu, Taiwan.

A+/A+

CV Computer Vision for Visual Effects, NTHU, Hsinchu, Taiwan.

PP Parallel Programming, NTHU, Hsinchu, Taiwan.

A+/A+

Interests

- Computer Vision + Machine Learning
- Computer Vision + Natural Language
- Computer Vision + Robotics
- Artificial Intelligence
- Al-Complete
- Robotics