# Kuo-Hao Zeng

Resume/ Curriculum Vitae

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Web: https://kuohaozeng.github.io

### **EDUCATION**

#### MS NATIONAL TSING HUA UNIVERSITY (NTHU)

Hsinchu, Taiwan

Master - Department of Electrical Engineering

Sep, 2014 – Current

GPA: 4.3/4.3 Rank: Top 1%

#### BS NATIONAL SUN YAT-SEN UNIVERSITY (NSYSU)

Kaohsiung, Taiwan

Bachelor - Department of Mechanical and Electromechanical Engineering

Sep, 2010 - Jun, 2014

GPA: 88.46/100, 3.62/4.0 (overall); 88.73/100, 3.7/4.0 (major); 93.29/100, 3.9/4.0 (last-60);

Rank: Top 12.5% (7th/56)

# **PUBLICATION**

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

[2] **Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, Min Sun, "Semantic Highlight Detection in Viral Videos", *CVGIP15*'. (Winner, CVGIP15' Best Paper Award)

- [3] Kuo-Hao Zeng, Yen-Chen Lin, Ali Farhadi, Min Sun, "Semantic Highlight Retrieval", ICIP16'.
- [4] **Kuo-Hao Zeng**, Tseng-Hung Chen, Juan Carlos Niebles, Min Sun, "Title Generation for User Generated Videos", *ECCV16*'.
- [5] Min Sun, **Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, "Semantic Highlight Retrieval and Term Prediction", Submitted to *TIP*.

# HONERS AND AWARDS

- Student Travel Award for ICIP (2016)
- Member of Phi Tau Phi Scholastic Honor Society of the Republic of China (2016)
  - Top 3% Students per year in College of EECS at NTHU.
- Best Paper Award in 28th IPPP Conference on CVGIP, Taiwan (2015)
  - Paper title: Semantic Highlight Detection in Viral Videos.
- NovaTek Scholarship (2015) 10 winners per year in College of EECS, in Taiwan.
- 2<sup>nd</sup> prize, MediaTek summer intern final group project presentation. (2014)
- Presidential Awards (amount to 5 semesters) (2010 2014)
  - Awarded to top 5% of students in each department of National Sun Yat-Sen University.
- NSYSU Undergraduate Outstanding Project (2013)

### RESEARCH EXPERIENCE

#### Vision Science Lab Advisor: Prof. Min Sun

Video Question Answering and Dialog System (2016 - current)

Large Scale Video Data Collection (2015 - current)

Deep Learning on Computer Vision - CNN, RNN (2015 - current)

Video Event Recognition, Summarization and Caption Generation (2014 - current)

#### Bio-Medical Micro Electro Mechanical Systems Lab

Advisor: Prof. Chen-Wen Yen

The Correlation between Heart Rate Variability and Apnea-Hypopnea Index is BMI Dependent (2014)

The Relation between Vertical Ground Reaction Force and Heart Rate during Treadmill Running (2013 - 2014)

### **CORE COURSE AND GRADES**

(\*): Undergraduate course

Signal Processing:		Machine Learning:	
Digital Signal Processing	(99/100)	Introduction to Optimization (*)	(96/100)
Stochastic Processes and Modeling	(93/100)	Introduction to Neural Networks	(99/100)
Computer Vision & Parallel Computing:		Machine Learning Theory	(A+/A+)
Computer Vision for Visual Effects	(A+/A+)	Advanced Machine Learning Theory	(A+/A+)
Parallel Programming	(A+/A+)	Neural Networks	(A+/A+)

# SELECTED TERM PROJECT

Image Processing GUI for Image processing and Image Compression implementation.

Neural Network Auto-encoder and Classification on MNIST, Chars74K and CIFAR-10 Dataset.

Computer Vision for Visual Effects Project Website: <a href="https://sites.google.com/site/computervisionvisualeffectsg11/home">https://sites.google.com/site/computervisionvisualeffectsg11/home</a>.

LAB Project CNN, RCNN, Fast RCNN, Faster-RCNN, LSTM Training & Fine-tuning, Sequence-to-Sequence.

# SKILL

**Programming Languages** C, C++, C#, Python, Perl

Programming Library & Open Source MPI, OpenMP, Pthread, Cuda, OpenCV, LIBSVM, Caffe, TensorFlow

Simulation Software MATLAB, HSPICE

# **WORK & TEACHING EXPERIENCE**

Teaching Assistant of Computer Vision (Graduate School)

Fall, 2015

Teaching Assistant of Signal and System

Spring, 2015

MediaTek Summer Intern

7/2014 - 9/2014

HIWIN Summer Intern

7/2013 - 8/2013

# INTEREST AND ACTIVITIES

• Computer Vision Research and Paper Publication on CVPR, ICCV, ECCV, NIPS.