

Kuo-Hao Zeng

Resume/ Curriculum Vitae

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EDUCATION

MS NATIONAL TSING HUA UNIVERSITY (NTHU)

Hsinchu, Taiwan

Master - Department of Electrical Engineering

Sep, 2014 – Current

GPA: 4.3/4.3 (- Current)

Rank: Top 1% (1st, -Current)

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

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- [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, “Video Title Generation”, *ECCV16’*.
 - [5] Min Sun, **Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, “Semantic Highlight Retrieval and Term Prediction”, Submitted to *TIP*.

HONERS AND AWARDS

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- **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.
 - **2nd 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)
Topic: Estimating the relation between vertical ground reaction force and heart rate with different exercising strength during treadmill running.

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:

Digital Signal Processing

(99/100)

Stochastic Processes and Modeling

(93/100)

Computer Vision & Parallel Computing:

Computer Vision for Visual Effects

(A+/A+)

Parallel Programming

(A+/A+)

Machine Learning:

Introduction to Optimization (*)

(96/100)

Introduction to Neural Networks

(99/100)

Machine Learning Theory

(A+/A+)

Advanced Machine Learning Theory

(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: <https://sites.google.com/site/computervisionvisualeffectsg11/home>.

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.