Kuo-Hao Zeng

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Resume/ Curriculum Vitae

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

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

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

[6] 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.
- **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)

RESEARCH EXPERIENCE

- **Stanford Vision Lab** *(Visiting Student)*   **Advisor: Prof. Juan Carlos Niebles, Prof. Fei Fei Li**

Risky Awareness in Video (2016 - current)

Video Anticipation (2016 - current)

- **Vision Science Lab** *(Master Student)*   **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 - 2016)

- **Bio-Medical Micro Electro Mechanical Systems Lab** *(Undergraduate)*   **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: https://sites.google.com/site/computervisionvisualeffectsg11/home.

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

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.