

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%
Graduate with honors: 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, 3.9/4.0 (last-60)
Rank: Top 12.5% (7th/56)

Publication

- Journal Min Sun, **Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, "Semantic Highlight Retrieval and Term Prediction". *IEEE Transactions on Image Processing*.
- Conference Hung-Jui Huang, Tsun-Hsuan Wang, Juan-Ting Lin, Chan-Wei Hu, **Kuo-Hao Zeng**, Min Sun, "Omnidirectional CNN for Visual Place Recognition and Navigation". *ICRA 2018*.
- Shih-Han Chou, Yi-Chun Chen, **Kuo-Hao Zeng**, Hou-Ning Hu, Jianlong Fu, Min Sun, "Self-view Grounding Given a Narrated 360 Video". *AAAI 2018*.
- Kuo-Hao Zeng**, William B. Shen, De-An Huang, Min Sun, Juan Carlos Niebles, "Visual Forecasting by Imitating Dynamics in Natural Sequences". *ICCV 2017*, **Spotlight**.
- Kuo-Hao Zeng**, Shih-Han Chou, Fu-Hsiang Chan, Juan Carlos Niebles, Min Sun, "Agent-Centric Risk Assessment: Accident Anticipation and Risky Region Localization". *CVPR 2017*, **Spotlight**.
- 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". *AAAI 2017*.
- Kuo-Hao Zeng**, Tseng-Hung Chen, Juan Carlos Niebles, Min Sun, "Title Generation for User Generated Videos". *ECCV 2016*.
- Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, Min Sun, "Semantic Highlight Retrieval". *ICIP 2016*.
- Workshop Shih-Han Chou, Yi-Chun Chen, **Kuo-Hao Zeng**, Hou-Ning Hu, Jianlong Fu, Min Sun, "Self-view Grounding Given a Narrated 360 Video". *ICCV 2017*.
- Tseng-Hung Chen, **Kuo-Hao Zeng**, Wan-Ting Hsu, Min Sun, "Video Captioning via Sentence Augmentation and Spatio-Temporal Attention". *ACCV 2016*.
- Kuo-Hao Zeng**, Yen-Chen Lin, Ali Farhadi, Min Sun, "Viralets: Learning from Viral Videos to Identify Semantic Highlight in Personal Videos". *CVPR 2015*.

Honors and Awards

- 2016 **Ministry of Education Republic of China (Taiwan) Scholarship (2016) for visiting Stanford Vision Lab**, *Ministry of Education Republic of China (Taiwan)*.
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 Answering 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 Outstanding Undergraduate Project, NSYSU.**

2010 – 2014 **Excellent Student Awards (amount to 2 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.
Video Representation Learning.
Video Anticipation.
Risky Assessment in Accident Video.

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.

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.

Summer 2014 **MediaTek Summer Intern, MediaTek,** Hsinchu, Taiwan.
Developing a "Control and Command System" demonstrator (Hardware and Software) for Fiber-optic communication IC and Verification. *C++/Perl/Matlab environments*

Summer 2013 **HIWIN Summer Intern, HIWIN,** Taichung, Taiwan.
Verify and Test Harmonic Drive.
Matlab environment