Yuan-Hong Liao

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Research Interests

My research focuses on combining the visual and language representation via machine learning skills and apply it to tasks such as question answering and captioning. Recently, I've got immersed in deep reinforcement learning and eager to apply it on visual-understanding tasks.

Education

National Tsing Hua University   *Hsinchu, Taiwan*
B.S. Degree of Electrical Engineering • Sep. 2013 – Present

- Advisor: Prof, Min Sun
- Academic performance: Total GPA: 4.02/4.3, Last 60 GPA: 4.04/4.3, Rank: 12/121

University of California, Davis   *Davis, U.S.A*
Extension student in international English and Professional Programs• Jul. 2015 – Aug. 2015

- Received the scholarship from my school to attend UC Davis extension program.

Professional Experience

Vision Science Lab, NTHU   *Hsinchu, Taiwan*
Research Assistance • Dev. 2015 – Present

- Conducting research on computer vision and machine learning, advised by Prof, Min Sun
- Proficient in image/video captioning and image/video question answering

Industrial Technology Research Institute   *Hsinchu, Taiwan*
Research Intern • Mar. 2016 – Present

- Work in Computational Intelligence Technology Center in ITRI, advised by Dr. Dung-Chan Tsai
- Present and survey on deep reinforcement learning, and I maintain a Github repo for this.
- Implement reinforcement learning algorithms in various tasks.

Umbo Computer Vision Inc.   *Taipei, Taiwan*
CV/ML Intern • Jun. 2016 – Sept. 2016

- Work on grounding via natural language with my advisor, Dr. Ting-fan Wu.
- Focus on combing vision and language, and do the data analysis.

Skills

- C/C++, Python, Lua, Matlab, Java, and Javascript
- Windows, Linux/Unix experience
- Machine learning framework: Caffe, Torch, Tensorflow
- With experience in developing Android App, embedded system

Language

- Traditional Chinese (local speaker)
- English (GEPT High Intermediate level)

Honors & Awards

Excellent student scholarship of EECS college, NTHU • *May. 2016*

- Around 8 people are granted every year (<10%)

Undergraduate research project supported by Ministry of Science and Technology, R.O.C.

- Topic: Semantic Video Highlight Detection by Exploiting LSTMs
- From Jul. 2016 to Feb. 2017

Runner-up of Digital Drift Best Paper on Deep Learning for Visual Analysis, *CVGIP 2016*

- Paper name: *BRAIN4VQA: Video Question Answering via Deep Networks*

Side Projects

- DNI-tensorflow on Github
- Natural-Language-Object-Retrieval-tensorflow on Github
- py-faster-rcnn-imagenet on Github