CURRICULUM VITAE

Yinghong LIAO

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OBJECTIVE

I am **Yinghong LIAO**, a bachelor graduate in software engineering at School of Data and Computer Science at Sun Yat-sen University, Guangzhou. My research interests include Computer Vision (specifically Vision & Language and Low-Level Vision) and Deep Learning.

Currently, I am a research intern hosted by Prof. Xiaodan Liang and work closely with Dr. Qingxing Cao in Visual Question Answering (VQA). I am eager to pursue a future PhD or MPhil position (2020 FALL).

EDUCATION

Bachelor of Engineering in Software Engineering Aug 2015 - June 2019
Sun Yat-sen University, GPA: **3.8/4.0** (3.8/5.0)

PUBLICATIONS

Learning Transmission Filtering Network for Imaged Based PM2.5 Estimation
Yinghong Liao, Bin Qiu, Zhuo Su, Ruomei Wang, Xiangjian He
IEEE International Conference on Multimedia and Expo (ICME), 266-271, 2019. (Oral)

HDP-Net: Haze Density Prediction Network for Nighttime Dehazing
Yinghong Liao, Zhuo Su, Xiangguo Liang, Bin Qiu
Pacific Rim Conference on Multimedia (PCM), 469-480, 2018. (Oral)

SKILLS

Programming languages Python, C/C++, Matlab
Deep Learning Tools Caffe, PyTorch

RESEARCH EXPERIENCE

Research Intern, Sun Yat-sen University Jul 2019 - Present
Human-Cyber-Physical Intelligence Integration (HCP-I2) Lab
Advised by Prof. Xiaodan Liang

Research Intern, Sun Yat-sen University Mar 2018 - Mar 2019

National Engineering Research Center of Digital Life
Advised by Prof. Zhuo Su and Prof. Ruomei Wang

PROJECTS

Linguistically driven Deep Model for Visual Question Reasoning Jul 2019 - Present
Researcher
· Designed an algorithm for visual question reasoning, which took the combination of end-to-end networks and modular networks into account for further enhancement.
· Explored end-to-end interpretable structural reasoning model for general images without the requirement of layout annotations.

Transmission Filtering Network for Daytime Image Dehazing Oct 2018 - Dec 2018
Project Leader
· Optimized daytime dehazing and improve haze removal effects on dataset RESIDE.
· Incorporated deep learning model into the classic dehazing method based on the dark channel prior (DCP).
· One paper accepted by ICME 2019 (responsible for most parts of work).
· Project Website

Haze Density Prediction Network for Nighttime Image Dehazing Mar 2018 - May 2018
Project Leader
· Explored effective algorithms for nighttime image dehazing.
· Employed deep learning model to solve the insufficient lighting problems in nighttime dehazing based on the constrained range of the residual between hazy and haze-free images.
· One paper accepted by PCM 2018 (responsible for experiments and manuscript writing).
· Project Website

HONORS AND AWARDS

Outstanding Undergraduate Student 2019
Awarded by School of Data and Computer Science, Sun Yat-sen University.

Excellent Undergraduate Thesis Award 2019
Awarded by Sun Yat-sen University.

Student Academic Innovation Award 2018
Awarded by Sun Yat-sen University.

Second Prize, Student Scholarship 2018
Awarded by Sun Yat-sen University.

Third Prize, Student Scholarship 2017
Awarded by Sun Yat-sen University.