

EVAN CHEN

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EDUCATION

National Yang Ming Chiao Tung University

Bachelor of Science, Electronics Engineering.

Sep. 2017 - Jun. 2021

GPA: 4.19/4.3 (Last 60: 4.26/4.3)

**National Chiao Tung Univ. (NCTU) and National Yang Ming Univ. merged into National Yang Ming Chiao Tung Univ. on Feb. 1, 2021*

STANDARDIZED TESTS

GRE

Verbal 153, Quantitative 168, Writing 3.5

Sep. 8, 2019

TOEFL

Reading 29, Listening 29, Speaking 25, Writing 25

Mar. 27, 2021

ACADEMIC HONORS

NCTU Academic Awards

Spring semester 2018

NCTU Academic Awards

Fall semester 2018

NCTU Academic Awards

Spring semester 2019

NCTU Academic Awards

Fall semester 2019

NCTU Academic Awards

Fall semester 2020

MOST College Student Research Scholarship (Ministry of Science and Technology)

Topic: Heart-rate estimation without skin contact using neural network approach

Jul. 2020

RESEARCH EXPERIENCE

Undergraduate Research

Jun. 2019 - Jun. 2021

Professor Chen-Yi Lee,

Department of Electronics Engineering,

National Chiao Tung University

Research Assistant

Jun. 2021 - Current

Professor Chen-Yi Lee,

Department of Electronics Engineering,

National Yang Ming Chiao Tung University

PROJECTS

Remote Heart Rate Estimation

The project aims to detect heart rate from facial videos. We use a deep neural network combine with a Meta-Transductive Learner to construct an robust end-to-end heart rate estimation system. This project was in cooperation with Realtek Semiconductor Corp.

Foveat-based Video Super Resolution

This project aims to perform super resolution onto a low resolution video stream with the knowledge where the user's foveat region is. Given a streaming data flow including low resolution frames and high resolution fovea regions, we apply a dynamic convolution approach to extract the moving fovea region's information for the peripheral's super resolution.

Video Prediction

A hierarchical memory structure cascaded onto a single LSTM is used for video frame prediction. The performance of this approach successfully outperforms current SotA of this field.

PUBLICATIONS

Lee, Eugene, [Evan Chen](#), and Chen-Yi Lee. "Meta-rppg: Remote heart rate estimation using a transductive meta-learner." European Conference on Computer Vision. Springer, Cham, 2020.

SKILLS

Modeling	PyTorch, Tensorflow
Languages	C, C++, Python, Matlab, Verilog