# EVAN CHEN

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## EDUCATION

**National Yang Ming Chiao Tung University**　　　　　　　　*Sep. 2017 - Jun. 2021*
Bachelor of Science, Electronics Engineering.　　　　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)

*Jul. 2020 - Feb. 2021*

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

## 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 cascoded 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, <u>Evan Chen</u>, and Chen-Yi Lee. "Meta-rppg: Remote heart rate estimation using a transductive meta-learner." European Conference on Computer Vision. Springer, Cham, 2020.

"Three more" Submitted to CVPR 2022.

## SKILLS

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|---|---|
| **Modeling** | PyTorch, Tensorflow |
| **Languages** | C, C++, Python, Matlab, Verilog |