Everley Tseng (Yu-Yun Tseng)

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PERSONAL STATEMENT

My research interests are in artificial intelligence, computer vision, machine learning, natural language processing, data science and IoT. I have more than five years of researching and coding experiences in deep learning. My PhD research direction is focused on Image Segmentation, Few-Shot Learning, and Data Privacy. During my Master's program, I worked on deep learning applications in autonomous driving, indoor positioning and computer vision. Personal page

EDUCATION

PhD, Computer Science, University of Colorado Boulder　　　　　　　　**2021 - Present**

- Research Assistant, Image & Video Computing Group (IVC) [website]
- Awarded Computer Science Departmental Fellowship $4,000
- Awarded Clive Baillie Memorial Fellowship $1,200
- Annual Graduate Students Award AY 2022-2023 (Research Award)
- Focus on Image Segmentation, Few-Shot Learning, Datasets, and Data Privacy
- Overall GPA: 3.85/4.0

MS, Institute of Computational Intelligence, College of Artificial Intelligence,　　**2019 - 2021**
National Chiao Tung University

- Research Assistant, Pervasive Artificial Intelligence Research Labs (PAIR) [website]
- Teaching Assistant of *Deep Learning* course with lab lecturing
- Thesis: Low-Cost Computer Vision Intelligent Transportation Solutions in 5G
- Overall GPA: 4.15/4.3

BS, Department of Engineering and System Science, National Tsing Hua University　　**2013 - 2017**

- Program track: Electronic Engineering
- Focused on embedded systems applications for medical use

AI Technical Professionals Program, Taiwan AI Academy (industrial scholarship)　　**2018**

- Focused on programming skills in GAN, Attention, Segmentation, RL and LSTM.
- Won 2nd place award out of 23 teams in final project presentation
- Final project: Image Captioning Model with Individual Recognition

WORK EXPERIENCE

Computer Vision Engineer, Coretronic Corporation　　　　　　　　　**2017 - 2019**

- Worked on computer vision and deep learning algorithms
- Developed CV and HCI projects on Linux, Windows and Android platforms

Research Intern, Lite-On Technology Corporation　　　　　　　　　　**2017**

- Worked on 3A algorithms (AE, AF and AWB), Image Signal Processing and Computer Vision
- Developed projects with C++, Linux, OpenCV and Caffe

PUBLICATIONS

Disability-First Design and Creation of A Dataset with Private Visual Information [pdf, supplementary]
Tanusree Sharma, Abigale Stangl, Lotus Zhang, Yu-Yun Tseng, Inan Xu, Leah Findlater, Danna Gurari, Yang Wang
Published in ACM Conference on Human Factors in Computing Systems (CHI), 2023

VizWiz-FewShot: Locating Objects in Images Taken by People With Visual Impairments [pdf, supplementary]
Yu-Yun Tseng, Alexander Bell, Danna Gurari
Published in European Conference on Computer Vision (ECCV), 2022

Efficient Vehicle Counting Based on Time-Spatial Images by Neural Networks [pdf]
Yu-Yun Tseng, Tzu-Chien Hsu, Jen-Jee Chen, and Yu-Chee Tseng
Published in *IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS)*, 2021

Computer Vision-Assisted Instant Alerts in 5G [pdf]
Yu-Yun Tseng, Po-Min Hsu, Jen-Jee Chen, and Yu-Chee Tseng
Published in *IEEE International Conference on Computer Communications and Networks (ICCCN)*, 2020

COURSE PROJECTS

EmotionGIF Contest: Predicting a GIF Response for a Tweet [pdf]
Course project, Natural Language Processing, National Chiao Tung University, 2020
Solve Sudoku Puzzles Using Genetic Algorithm [pdf]
Course project, Evolutionary Computation, National Chiao Tung University, 2020
Multi-Headed Structure Cytopathic Effects (CPE) Few-Shot Classification
Academic project, Pervasive Artificial Intelligence Research Labs, National Chiao Tung University, 2020
Tagging IoT Data on Drone View via Deep Learning
Academic project, Pervasive Artificial Intelligence Research Labs, National Chiao Tung University, 2019
Virtual Retail Clerk System with Image-Based and Textual-Description-Based Product Search
Industrial project, Coretronic Corporation, 2019
Virtual Keyboard and Mouse by Gesture Control System with Computer Vision
Industrial project, Coretronic Corporation, 2018
Facial Skin Condition Analysis using Semantic Segmentation with Automatic Face Recognition
Industrial project, Coretronic Corporation, 2018
Image Captioning Model with Individual Recognition
Final project, AI Technical Professionals Program, 2018
Pain Rating System with Pain Level Inquiry Video in Emergency Room
Senior project, National Tsing Hua University, 2017
Knee Supporting Level Analysis using Arduino
Senior project, National Tsing Hua University, 2016