Yu Che (Jeffrey) Wang

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EDUCATION

University of Illinois at Urbana-Champaign

May 2021

Bachelor of Science, Computer Science

GPA: 4.00/4.00

Related Coursework

Data Structures Linear Algebra and Probability Web Programming (in progress)

Machine Learning Signal Processing Database Systems (in progress)

TECHNICAL SKILLS

- Python (PyTorch, TensorFlow, NumPy, SciPy, Pandas, Matplotlib, OpenCV, scikit-learn)
- C, C++, Java, HTML, CSS, JavaScript, SQL, MATLAB, MS Office

RELEVANT RESEARCH EXPERIENCE

Undergraduate Research Assistant, University of Illinois

October 2018 - Present

Department of Computer Science, Advisor: Prof. Svetlana Lazebnik

- · Applied self-supervised learning and convolutional neural network to localize sound sources in videos
- Investigated on different models (AlexNet, ResNet, UNet) and hyperparameters to improve performance
- Utilized image segmentation network and audio separation algorithms to enhance localization accuracy

Summer Research Intern, Academia Sinica, Taiwan

May 2018- August 2018

IIS Computer Vision Lab

- Provided solutions to domain transfer problems with insufficient data: applying conditional generative network to augment CUHK Face Sketch Database
- Utilized singular value decomposition to reduce dimensionality to speed up computation
- Created artificial human face sketches for any input human face photo by calculating transfer matrix between the sketch and photo domain
- Attended group meetings and presented paper reviews

Summer Research Intern, National Taiwan University

May 2017- August 2017

Mobile and Vehicular Network Lab, Department of Computer Science and Information Engineering

- Utilized orthogonal frequency-division multiplexing to transmit light signals from leading to following car
- Conducted on-road experiment to test the robustness of the visible light communication system
- Used MATLAB to analyze experimental data and discovered factors that affect the accuracy of the system

WORK EXPERIENCE

Mathematics and Physics Tutor, Taiwan

May 2018 - August 2018

- Used self-compiled materials to teach high school students SAT Physics and AP Calculus
- Students improved 150 points and 2 grades in SAT Physics and AP Calculus respectively

HONORS AND ACTIVITIES

Association for Computer Machinery, University of Illinois

January 2018 - Present

- Attend artificial intelligence and web programming special interest groups' meetings and lectures
- Joined hackathons and contributed to open source projects

National Team Selection Program for Asian and International Physics Olympiad, Taiwan

April 2017

• Ranked 9th among over 3,000 participants