

Jones (Jinhong) Lin

Undergraduate · Computer Science

University of Wisconsin-Madison

✉ jlin398@wisc.edu | 🌐 www.joneslin.com | 📺 JonnesLin | 🎓 Scholar

Education

University of Wisconsin Madison

Madison, United State

BS Undergraduate Degree

- Majors in Computer Science

Professional Experience

Jun 2022-
Present

Research Assistant, Singapore University of Technology and Design

Oct 2020-
Sep 2021

Research Assistant, Joint Project Tencent AI Lab and Beijing Language and Culture University, Beijing, China

Aug 2020-
Oct 2020

Research Assistant, Institute of Computing Technology Chinese Academy of Sciences, Beijing, China

Research Experience

Singapore University of Technology and Design

Advisor: Prof. Jun Liu

Jun. 2022 - Present

- Paper: "Impact of the Last Fully Connected Layer on Out-of-distribution Detection"

University of Wisconsin Madison

Advisor: Prof. Pedro Morgado

Aug. 2022 - Present

- Research Direction: Unsupervised Continual Learning

Beijing Language and Culture University

Advisor: Prof. Dengfeng Ke

Oct. 2020 - Sep 2021

- Paper: "A full text-dependent end to end mispronunciation detection and diagnosis with easy data augmentation techniques."

Publications/Preprint

Impact of the Last Fully Connected Layer on Out-of-distribution Detection.

Jinhong Lin, Haoxuan Qu, Jun Liu. 2022.

A full text-dependent end to end mispronunciation detection and diagnosis with easy data augmentation techniques.

Kaiqi Fu, **Jinhong Lin**, Dengfeng Ke, Yanlu Xie, Jinsong Zhang, Binghuai Lin. 2021.

Teaching Experience

Spring 2021 **Introduction to Artificial Intelligence**, Peer mentor

Projects

Electric piano based on Computer Vision

Key words: Computer Vision; Raspberry Pi; Python; OpenCV; Multiprocessing

- The piano captures pictures with a camera, which is processed by a Raspberry Pi, and plays the sound with a speaker.

AutoDrive Challenge

Key words: Computer Vision; Python; OpenCV; Machine Learning; PyTorch

- The project aims to achieve a totally autonomous vehicle in some relatively complex situations(Level 4). It's funded by General Motors and the Society of Automotive Engineers (SAE)

Mispronunciation Detection

Key words: Python; Machine Learning; PyTorch; Kaldi; C++; Shell

- The project aims to detect mispronunciations with CTC and self-attention techniques.

Evison

Key words: Computer Vision; Python; Machine Learning; PyTorch

- The project aims to visualize feature maps of a network by CAM(Class Activation Mapping) with only 3 line codes.

Skills

Programming languages : Java, Python, Julia, Shell, Mathematica, C/C++, MATLAB, R

Framework : PyTorch, Kaldi, Scikit-learn, OpenCV, Hadoop

Softwares : Photoshop, Illustrator

Languages : English, Chinese.