Hung-Jui Guo

Computer Science/Software Engineering Ph.D. student

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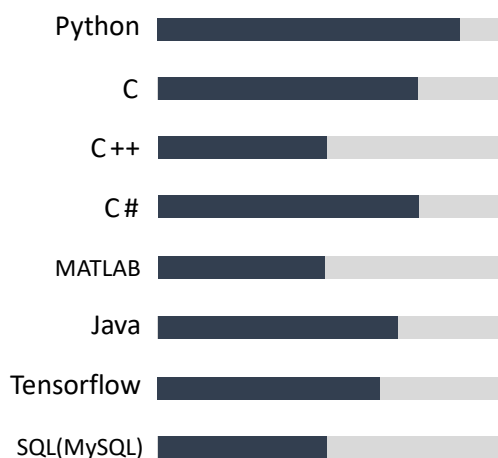in /in/hung-jui-guo-0a218aa1/

◆ Objective

Ph.D. student with **AR/MR/Computer Vision** research experiment
Currently implementing HoloLens 2 features for scene understanding related topics by collaborating with another research team. Looking for **summer research Internship** related to AR/VR/MR/ML/CV.
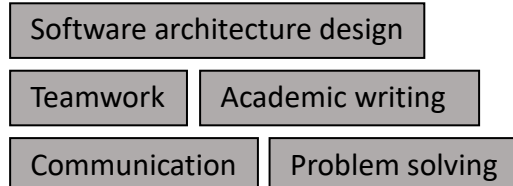
◆ Programming Languages

- Python
- C
- C++
- C#
- MATLAB
- Java
- Tensorflow
- SQL(MySQL)

◆ Type Setting

- LaTeX
- Microsoft Office

◆ Soft Skills

- Software architecture design
- Teamwork
- Academic writing
- Communication
- Problem solving

◆ Education

2019-now **Ph.D.** in Computer Science, **the University of Texas at Dallas**

2016-2018 **M.S.** in Computer Science, **National Chung Cheng University**
- GPA: 3.55/4.0
- Thesis Title: Multi-Stream Networks for Multi-Sampled Multi-Label Image Classification

2012-2016 **B.A.** in Computer Science, **National Chung Cheng University**

◆ Research Experience

2019-now Multimedia Lab, the University of Texas at Dallas

Publication: H.-J. Guo, B. Prabhakaran, "**HoloLens 2 Technical Evaluation as Mixed Reality Guide**", submitted to Multimedia System Journal.
- Providing guidelines and machine capacity for new HoloLens 2 users by testing different Mixed Reality features among sensors.

Publication: Y.-Y Chung, H.-J. Guo, H. G. Kumar, B. Prabhakaran, "**High-quality First-person Rendering Mixed Reality Gaming System for In Home Setting**," 2020 AIVR, Best Presentation Award.
- Creating real-time first-person rendering game for curing Phantom pain patients by using Kinect and Unity engine

2016-2018 Multimedia Computing Laboratory, National Chung Cheng University

Publication: W.-T. Chu and H.-J. Guo, "**Movie genre classification based on poster images with deep neural networks**," MUSA, 2017 (in conjunction with ACM Multimedia 2017)

- Collecting robust movie posters dataset and classified movie genre to state-of-the-art accuracy. This publication currently has 35 citations.

◆ Awards and Honors

2020 **AI CUP 2020** Aiwen Mango Three-Category Classification Competition top 25%, Taiwan

2019 **Jonsson School $1000 Graduate Study Scholarship,** UTD, TX, USA

2018 **Master Thesis Award**, Taiwan Institute of Information & Computing Machinery, Taiwan

2017 **Student Travel Grant,** the ACM Multimedia, Mountain View, CA, USA

2017 **Financial Support for Participating International Conferences,** the Ministry of Science and Technology, Taiwan

2015 **Excellent Paper Award,** the Cloud Computing Computer Project Contest, Taiwan

◆ Projects

After-school project

Fall 2020 **AI CUP 2020**

Project Aiwen Mango Three-Category Classification Competition

- Building Machine Learning model for automatically classifying the quality of mangos and archive top 25% result.

The University of Texas at Dallas, TX, USA

Spring 2020 **Requirement Engineering**

Project SlimWalking

- Design a project to help blind people navigating toward a target indoor location, including designing a vision document and a WRS document.

Fall 2019 **Database Design**

Project DART bus database system design

- Simulate a complete bus and customer database system by using Oracle and EER diagram.

Fall 2019 **Advanced Software Architecture and Design**

Project NeGenSearch

- Build a search engine algorithm and system by using crawler to craw websites and KWIC to create indices.

◆ Working Experiences

2020 - now **Teaching Assistant/Research Assistant**, CS department, UT Dallas

2014 - 2018 **Dean's Office Assistant,** College of Engineering, CCU

◆ Extracurricular Activities and Leaderships

◆ Language

National Chung Cheng University (CCU), Chiayi, Taiwan

2017-2018 **Mentoring** Junior Students on Research Projects in MCLAB   Chinese

2015 **Leader** of Computer Project for Graduation   English

2013-2015 **Captain** of Computer Science Table Tennis Team   Taiwanese