Min-Hsuan Yeh

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EDUCATION

B.Sc. in Computer Science and Information Engineering   2016 – 2020
National Taiwan University of Science and Technology (NTUST)   *Taipei, Taiwan*
GPA: 3.97/4.3, Rank: 2/51

RESEARCH EXPERIENCE

Research Assistant   2020 – Present
Natural Language Processing and Sentiment Analysis (NLPSA) Lab, Academia Sinica   *Taipei, Taiwan*
Advisor: Dr. Lun-Wei Ku

Multi-VQG
- Designed a novel NLP task: generating a natural question from multiple images, and implemented Multi-VQG, the first model for the task

Lie Detection (Publications [1])
- Analyzed several lie detection datasets and models with verbal leakage cues, psychological theory, and proposed guidelines for data collection methods of lie detection
- Analyzed verbal leakage cues in cross-lingual data

Undergraduate Research Assistant   2018 – 2020
Graphics Animation Multimedia Edutainment (GAME) Lab, NTUST   *Taipei, Taiwan*
Advisor: Prof. Wen-Kai Tai

Mahjong AI
- Developed a virtual Mahjong environment to test AI agents
- Developed a value-based Reinforcement Learning agent that can play with human on the virtual Mahjong environment (Award [4])

Probability Simulation for Slot Game Design
- Developed an algorithm to speed up slot game probability simulation
- Developed a web-based tool to visualize and analyze the simulation result

TEACHING EXPERIENCE

Teaching Assistant — Object Oriented Programming   Spring 2018
Dep. of Computer Science and Information Technology, NTUST   *Taipei, Taiwan*
- Taught C programming in lab
- Maintained an automatic homework assignment system

Teaching Assistant — Computer Programming   Fall 2018
Dep. of Computer Science and Information Technology, NTUST   *Taipei, Taiwan*
- Taught C++ programming in lab
- Guided the students with completing their term projects

WORK EXPERIENCE

Lab Infrastructure Manager and System Administrator   2021 – Present
Natural Language Processing and Sentiment Analysis (NLPSA) Lab, Academia Sinica   *Taipei, Taiwan*
- Managed 7 servers with 21 GPUs
- Maintained a web server, file server (NAS), and database

PUBLICATIONS

[1] **Min-Hsuan Yeh** and Lun-Wei Ku, *"Lying Through One's Teeth: A Study on Verbal Leakage Cues,"* to appear in Proceedings of the The 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP 2021)

Projects

Fast-MVS (Mobile app and backend service) | *C++, Node.js, Vue.js, Swift* 2019 – 2020
- A graduation project in NTUST
- Developed a real-time pipeline to construct 3D models from video stream
- Developed a web based tool to view and edit the reconstructed scene
- Developed an iOS app to record traffic accident scenes and stream to the pipeline

Kesshou (Mobile app for assisting students) | *Node.js, RESTful API, Java* 2015 – 2016
- Developed an Android APP to show well-organized information
- Developed a web crawler to get all information on the school's website
- Provided RESTful APIs for APP

Awards and Grants

[1] **Conference Grant** | *$300* (from Academia Sinica) 2021
Attending Conference on Empirical Methods in Natural Language Processing (EMNLP), Online

[2] **Conference Grant** | *$225* (from Academia Sinica) 2020
Attending Conference of the Association for Computational Linguistics (ACL), Online

[3] **Travel Grant** | *$1,049* (from NTUST) 2019
Attending Game Developers Conference (GDC), San Francisco, CA

[4] **National Collegiate Programming Contest** | *Honorable Mention* 2018

[5] **AI Project Competition** | *Best Technology Award* 2018
Mahjong-DQN: A value-based RL agent for Sichuan Mahjong—(Advisor: Prof. Wen-Kai Tai)

[6] **Travel Grant** | *$999* (from NTUST) 2018
Attending Game Developers Conference (GDC), San Francisco, CA

[7] **Academic Excellence Award** 2018
Top 5% student in the Dep. of Computer Science and Information Technology, NTUST

[8] **National Collegiate Programming Contest** | *Honorable Mention* 2017

Oral Presentations

EMNLP 2021 (Publication [1]), Online

Service

Secondary Reviewer: IAAI 2022, AAAI 2022, NLPCC 2021, IAAI 2021

Relevant Courses

Undergraduate Level: Introduction to Natural Language Processing, Linear Algebra, Discrete Mathematics, Probability and Statistics, Introduction to Data Science, Algorithms, Data Structures
Graduate Level: Artificial Intelligence

Skills

Programming Languages: Python, Go, JavaScript, C#, C/C++, PHP
Frameworks: Node.js, Vue.js, Flask, Bootstrap
Packages: PyTorch, Keras, Scikit-learn, Pandas, NumPy, NLTK, D3.js
Database: MySQL, MongoDB
Others: WebGL, Git, Vim, VS Code, HTML/CSS, Xcode, Nginx, LaTeX

Languages

Languages: Mandarin (Native), English (professional working proficiency)