Chung-Yu Wang

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EDUCATION

National University of Kaohsiung *Kaohsiung, Taiwan*
Bachelor of Information Management, GPA: 3.52/4.0, Last 2 Year Credits: 3.96/4.0 *Sep. 2018 - Jun. 2022*
Award: Second Prize, Graduation Project Competition, IM, NUK

- Awarded to top 3 teams which designed the most prominent graduation project or system.

PUBLICATION

- T.-H. Yang*, **C.-Y. Wang†**, H.-C. Tsai†, Y.-C. Yang† and C.-T. Liu, "YTLR: a web service for automatic yeast transcription factor-gene association extraction from the literature" Computational and Structural Biotechnology Journal, vol. 20, pp. 4636-4644, 2022 (SCI 2022 impact factor = 6.155, Ranking 23.6% (70/296) in Biochemistry & Molecular Biology)
- T.-H. Yang*, **C.-Y. Wang†**, H.-C. Tsai†, and C.-T. Liu†, "Human IRES Atlas: an integrative platform for studying IRES-driven translational regulation in humans" Database, vol. 2021: article ID baab025; doi:10.1093/database/baab025, 2021. (SCI 2020 impact factor = 3.451, Ranking 24% (14/58) in Mathematical & Computational Biology)
- **C.-Y. Wang†**, K.-C. Tu†, Y.-C. Yang†, H.-C. Tsai† and T.-H. Yang*, "High-efficiency classification of agricultural jujube injured causes using EfficentNet" Domestic conference paper in 2021 International Conference on Technologies and Applications of Artificial Intelligence (TAAI): Taichung, Taiwan. (Oral)

RESEARCH EXPERIENCE

Computational Biology & Intelligence System Lab, National University of Kaohsiung

Research Assistant (Advisor: Dr. Tzu-Hsien Yang) *Jan. 2021 - Jan. 2022*

- Crawled data from websites and preprocessed data as Natural Language Processing (NLP) model input.
- Fine-tuned BERT models to identify the transcription factor-gene pairs association from biomedical publications with 83% AUC values, which is higher than 26% of other methods.
- Used ROC curve analysis technique to evaluate the results of different Internal Ribosome Entry Site (IRES) prediction tools.

PROJECT EXPERIENCE

"Pick Up Choose": An automatic grading application for jujubes *Aug. 2021 - Dec. 2021*

- Fine-tuned an EfficientNet model for jujubes injured causes classification with 93% AUC values.
- Fine-tuned YOLOv4 object detection models to capture jujubes location information in images.
- Designed an application for automatic classifying jujube grades on smartphones with Flutter.

"Who's the victim?": A computer game designed with Java *Mar. 2021 - Jun. 2021*

- Designed a computer game which ideas/contents were adapted from the board game called "Bang!".
- Designed and Implemented game functions, events, and GUI interfaces with Java programming.

"Moving soldiers": Implemented path searching algorithms with Java *Mar. 2021 - Jun. 2021*

- Designed a simple GUI interface and simulated the movement strategy in League Of Legends.
- Familiar with algorithms including DFS, BFS, UCS.

"Flight Inquiry System": A website for inquiring about flight information *Sep. 2020 - Jan. 2021*

- Used ERD, Relational Model, UML, and Normalization to systematically construct the database.
- Filtered data from the database with SQL query and presented the searching result on a simple website.

WORK EXPERIENCE

Teaching Assistant of Object-Oriented Programming, IM, NUK *Sep. 2020 - Jun. 2021*

- Totally designed 2 projects divided into 10 checkpoints for more than 100 students as practice materials.

Computer Facilities & Network Administrator, IM, NUK *Sep. 2020 - Jun. 2021*

- Managed and maintained the websites for the IM department and more than 10 faculty members.

TECHNICAL SKILLS

Programming Skills	Python, Java, C, HTML/CSS, PHP, R, JavaScript
Database	MySQL, phpmyadmin, PostgreSQL, MongoDB
ML Frameworks	Keras, Pytorch, Tensorflow

EXTRACURRICULAR

President of Badminton Club, IM, NUK *Sep. 2020 - Jun. 2021*
Instructor at the Information Management Camp, IM, NUK *Jul. 2019*