

Chi-Jane Chen

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Education Background

National Taiwan Ocean University

RANKED IN TOP 200 BY QS ASIAN UNIVERSITY RANKINGS, 2017

- B.S. in Computer Science and Engineering
- Overall GPA: 4.0/4.0
- Class Ranking: 1/53

Keelung, Taiwan

02/2016-06/2018

National Dong Hwa University

RANKED IN TOP 400 BY QS ASIAN UNIVERSITY RANKINGS, 2017

- Department of Computer Science and Information Engineering
- Overall GPA: 4.19/4.5 (3.87/4.0)
- Class Ranking: 3/58

Hualien, Taiwan

09/2014-01/2016

Publications

- ▶ **Chen, Chi-Jane**, Pai, Tun-Wen, Huang, Jhen-Li and Lo, Ying-Tsang. "Integrating Disease Trajectory of Preterm Birth and Whole Exome Sequencing for Facilitating Biomarker Panel Construction". (under preparation) N/A
- ▶ Chen, Yit-Jin, **Chen, Chi-Jane** and Chen, Chi-Jim (2018). "Schemes of Data Visualization for Ground Vibration Prediction Induced by Trains", The 47th International Congress and Exposition on Noise Control Engineering (Inter-Noise 2018), Institute of Noise Control Engineering. Chicago
- ▶ Chen, Yit-Jin, Liu, Chih-Hao, Chen, Chi-Jim and **Chen, Chi-Jane** (2018). "Application of Ensemble Learning Algorithm for Ground Vibration Prediction", Asian Conference on Engineering and Natural Sciences (ACENS 2018), Higher Education Forum. Osaka
- ▶ **Chen, Chi-Jane**, Pai, Tun-Wen, Huang, Jhen-Li, Lo, Ying-Tsang, Lin, Shih-Syun and Yeh, Chun-Chao (2017). "Construction of a Metadata Schema for Medical Data in Networking Applications", 31st International Conference on Advanced Information Networking and Applications Workshops (WAINA), IEEE, 597-600. (Best paper award) Taipei
- ▶ **Chen, Chi-Jane**, Pai, Tun-Wen, Lin, Shih-Syun, Yeh, Chun-Chao, Liu, Min-Hui and Wang, Chao-Hung (2016). "Application of PrefixSpan Algorithms for Disease Pattern Analysis", International Computer Symposium (ICS), IEEE, 274-278. Chiayi

Honors and Awards

- 2018.06 **Second Prize**, Outstanding Academic Achievement in National Taiwan Ocean University
2018.01 **Excellence Award**, Senior Project Contest in National Taiwan Ocean University
2017.03 **Best Paper Award**, IEEE WAINA-2017
2015.12 **Third Prize Scholarship**, Academic Excellence by National Dong Hwa University
2015.05 **Third Prize Scholarship**, Academic Excellence by National Dong Hwa University

Skills

Programming Languages

- ▶ C/C++, Python, Java, Swift, SQL, JavaScript, OpenCV, MATLAB, Verilog, VHDL

Other Languages

- ▶ HTML, Css, LaTeX

Operating Systems

- ▶ Windows, macOS, Linux

Project and Professional Experience

Biomedical Informatics Lab, National Taipei University of Technology

2018.09 - Present

SUPERVISOR: PROF. TUN-WEN PAI

- Position: Full-time Research Assistance

Research Project Found by Taipei Mackay Memorial Hospital

2019.08 - Present

SUPERVISOR: PROF. TUN-WEN PAI

Integrating Disease Trajectory of Preterm Birth and Whole-exome Sequencing for Facilitating Biomarker Panel Construction

- Identified biomarkers set through collecting current genetic information associated with preterm birth from dbPTB, GEO, and OMIM datasets
- Developed an efficient testing panel kit for high-risk preterm birth women cooperating with biotech companies

Research Project Found by Ministry of Science and Technology

2018.09 - 2019.07

SUPERVISOR: PROF. TUN-WEN PAI

Prevention of high-risk preterm delivery based on disease trajectory and comorbidity from governmental medical records

- Compared normal pregnancy women with preterm birth women, determine the significant odds ratio of each disease pattern
- Developed a preterm birth detection through preterm disease trajectory pattern analysis

Department of Civil Engineering, Chung Yuan Christian University

2017.07-2018.08

SUPERVISOR: PROF. YIT-JIN CHEN

- Position: Interdisciplinary Research Cooperation, *Development of automatic prediction model for ground vibration induced by train using machine learning technics*
 - Developed an automatic ground vibration prediction system using different kinds of machine learning algorithms with an accuracy rate of 68% ~82%
 - Proposed schemes for data visualization of a ground vibration prediction system through web applications

Biomedical Informatics Lab, National Taiwan Ocean University

2016.02-2018.06

SUPERVISOR: PROF. TUN-WEN PAI

- Position: Part-time Undergraduate Research Assistance

Research Project Found by Ministry of Science and Technology

Application of the PrefixSpan algorithm for chronic disease analysis and Construction of a metadata schema for medical data in networking applications

- Applied the PrefixSpan algorithm to mine data on chronic patients' trajectories for seven specific chronic diseases that have high prevalence rates in Taiwan
- Evaluated the results from disease trajectories and showed the regional distribution of the population in Taiwan
- Proposed metadata schema for integrating multiple heterogeneous hospitalization records, analyzing the issue of long-term treatment

Inventec Corporation

2015.06-2015.09

SUPERVISOR: SENIOR ENGINEER, DR. YA-SHAN JHANG

- Position: Full-time Software QA Engineer Intern

Examined the stability and compatibility of a yet-unreleased Microsoft Windows 10 system

- Tested different versions of the operating environment
- Performed a detailed evaluation to optimize the system
- Documented the testing report for testing the particular regions and languages

Department of Mathematics, National Taiwan University

2014.05-2014.09

SUPERVISOR: SENIOR ENGINEER, DR. JHIH-REN NONG

- Position: Full-time Computer Administrator Intern

- Administrated and maintained the computer system
- Helped faculty solve computer devices and Windows PC problems