

YI-TING HUNG

+886 978 935 932 | ythung1998@gmail.com | github.com/ythung85

EDUCATION

National Taiwan University

2016-2020

Bachelor of Bioenvironmental Systems Engineering

Relevant Courses: Statistics, Linear Algebra, Machine Learning and Environmental Data Analysis, Big Data and Business Analysis, Reliability and Numerical Method

Overall GPA: Distinction (3.94/4.3), Rank: 4/45

Last 60 credits: 4.1/4.3

PARTICIPATED PROJECTS

Design of Bridge Health Monitoring System Based on IOT

Jul 2018 - Oct 2019

Public Works Department

Taipei City Government, Republic of China

- Monitoring on-site bridge health conditions using IOT data
- Simulating bridge's responses under a passing vehicle via numerical approach

Supply Chain Management Model for Intelligent Agriculture

Oct 2019 - May 2020

Ministry of Economic Affairs

Republic of China

- Predicting production period and yield amount via machining learning tool with 96% accuracy
- Enhancing the efficiency of farmers' 5 different harvests
- Designing a web API to facilitate the operation of supply chain management system for farmers

Intelligent Agriculture: A Smart Detection Program for Recorded Data

Apr 2020 - Present

Agriculture and Food Agency Council of Agriculture

Executive Yuan, Republic of China

- Establishing high-performance Model that combining SVR with other statistical tools to detect abnormality for data with 80% accuracy

BACHELOR'S THESIS

Reconstructing Structural Displacement via Optimization using Acceleration Record

National Taiwan University

Apr 2020

- Conducting downsize bridge experiment at Kyoto University through faculty exchange program
- Simulating real-time bridge responses through a numerical method coded by MATLAB

EXPERIENCE

Research Assistant

Jul 2019 - Present

NTU, Department of Bioenvironmental Systems Engineering

Taipei, Republic of China

Assistant to Professor Kuo-Wei Liao, conducting governmental projects

- Strong skills in data analysis and management using a high level of proficiency in Python
- Creative application of machine learning and statistical techniques for precision agriculture with Python and MATLAB

Teaching Assistant

Fall 2018, Winter 2020

NTU, Department of Bioenvironmental Systems Engineering

Taipei, Republic of China

- Assisting Professor with preparing class materials, grading assignments and exams
- Working with students one-on-one and solving their problems encountered with course material

YuTeng Structural Office
Intern

Jul 2019 - Aug 2019
Taoyuan, Republic of China

- Designing an automatic program to execute structural analysis
- Reviewing a designed detention basin that meets the standard in the design guideline

TECHNICAL STRENGTHS

Programming	Python, MATLAB and R
Machine Learning	Python, MATLAB
Numerical Analysis	MATLAB
Libraries	Pandas, numpy, and Scikit-Learn

LEADERSHIP

NTU, Department of Bioenvironmental Systems Engineering	Sep 2018 - Jun 2019
<i>Vice-president</i>	<i>Taipei, Republic of China</i>

- In charge of coordinating with program office's mission and strategic plan
- Planning and organizing the activities of division; implementing and developing effective policies
- Designing and conducting formal presentations for orientation programs.

AWARDS AND RECOGNITIONS

Tomotake Takasaka Outstanding Paper Scholarship(\$ 150)	<i>May 2020</i>
4th National Taiwan University Undergraduate Best Paper Award	<i>June 2020</i>

Data Innovation Final Competition	Nov 2020
<i>Industrial Development Bureau, Ministry of Economic Affairs</i>	<i>R.O.C</i>

- Analyzing tourist preference and selective behavior through text analysis and made a business proposal

Intelligent Manufacturing: Big Data Final Competition (Rank:10/111)	Oct 2020
<i>TungHai University, Industrial Technology Research Institute</i>	<i>TW</i>

- Predicting abnormal data of machine tools through 281 different parameters with RMSE 0.066