

# Wei-Chun Tseng

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## EDUCATION

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### National Taiwan University

Taipei, Taiwan

M.S. Computer-Aided Engineering, Civil Engineering

Sep. 2021-Aug. 2023

- Coursework: Object-Oriented Programming, Machine Learning and Deep Learning, Financial Technology

### National Central University

Taoyuan, Taiwan

B.S. Civil Engineering

Sep. 2017-Jun. 2021

- Awards: 2018-2020 Academic Excellence Award

## PROFESSIONAL EXPERIENCE

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### National Taiwan University

Taipei, Taiwan

Teaching Assistant - Energy Systems Engineering and Economics

Sep. 2022-Jan. 2023

- Instructed Machine Learning in Renewable Energy Management by **TensorFlow** and **Scikit-Learn**
- Taught Data Analysis in Energy Science and Electricity Industry in **Python**
- Led special education students in completing final research projects

## RESEARCH EXPERIENCE

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### E3 Research Group @ NTU

Taipei, Taiwan

Journal Publications

- **W.-C. Tseng** & I.-Y. L. Hsieh. Impacts of electric fleet charging patterns under different solar power penetration levels: Hourly grid variations and operating emissions (2023). Transportation Research Part D: Transport and Environment, 122:103848: 10.1016/j.trd.2023.103848.
- **W.-C. Tseng**, H.-C. Chen, T.-H. Chang, T.-Y. Chang, & I.-Y. L. Hsieh. Assessing the Evolution of Power Sector Carbon Emission Intensity in Taiwan: Status Quo and Net-Zero Future Perspectives (2022). Journal of Taiwan Energy, Volume 9, No. 4, pp. 307-321.

Conference Papers

- W.-H. Chen, K.-Y. Lo, **W.-C. Tseng (Joint 1<sup>st</sup> author)**, Y.-F. Feng, & I.-Y. L. Hsieh. Carbon Emission and Abatement Potential Outlook for Buildings in Smart Grids with Energy Storage Systems: Case Study of a University Building in Taiwan. SAE-TEGA, 2022.
- **W.-C. Tseng**, I.-Y. L. Hsieh. Blockchain Technology in Electric Vehicles and Green Energy Technology. TEGA, 2021.

## HONORS AND AWARDS

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- **Excellent Paper Award**, SAE-TEGA Conference 2022
- **Excellent Award**, Unicorn ESG Technology Poster Competition 2022
- **Merit Paper Award**, TEGA Conference 2021

## SKILLS

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- **Programming:** Python, C/C++, SQL, HTML, CSS, JavaScript
- **Knowledge:** Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Statistics
- **Technologies:** Scikit-Learn, NumPy, Pandas, SciPy, PyTorch, TensorFlow, Bootstrap, jQuery, Node.js, Express.js, React.js, Git, GitHub, Linux, MySQL, MongoDB