

Wenyu Chiou

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EDUCATION

M.S. in Hydrological and Oceanic Sciences

Sep 2021 – Jun 2023

- **Surface Hydrology Group**, Institute of Hydrological and Oceanic Sciences (IHOS), National Central University (NCU), Taiwan
- GPA: 4.3/4.3 (Max)
- Thesis Title: “*Investigating groundwater flow characteristics of the Taoyuan coastal zone*”

B.S. in Earth Sciences

Sep 2017 – Jun 2021

- Department of Earth Sciences, NCU, Taiwan
- GPA: 3.9/4.3 (Max)

PUBLICATION

Chiou, W.Y., Li, M.H., Chen, K.Y., & Chen, P.Y. (2021). “*Seasonal variations of water and energy budget of evergreen broad-leaved forest in central Taiwan.*” *Journal of Taiwan Agricultural Engineering*, 67(4), 62-75. [https://doi.org/10.29974/JTAE.202112_67\(4\).0004](https://doi.org/10.29974/JTAE.202112_67(4).0004) Dec 2021

Li, M.H., Chiou, W.Y., Chen, K.Y., (2023). “*Integrating Electrical Resistivity Tomography Techniques, Field Observations, and Numerical Simulations to Investigate Dynamics of Submarine Groundwater Discharge of the Taoyuan Tableland, Taiwan*” 2023 AGU meeting Dec 2023

Chiou, W.Y., Li, M.H., Chen, K.Y., (2024) “*Characterizing Submarine Groundwater Discharge with a Surface Clay Layer over the Coastal Taoyuan Tableland in Taiwan*” WaterSciCon24 June 2024

EXPERIENCE

Research Assistant, Surface Hydrology Group, IHOS, NCU, Taiwan

Aug 2023 - Sept 2023

Jan 2024 - Current

- Two and three-dimensional groundwater numerical modeling, data calibration, data analysis of modeling data, and monitoring groundwater data
- Evaluation and Assessment of Nature-Based Solution (NBS) performance and impact
- Writing research project

Intern Program, National Science and Technology Center for Disaster Reduction, Taiwan

July 2022 - August 2022

- Analyzing global climate model downscaling data (IPCC, AR6)

Intern Program, Institute of Earth Sciences, Academia Sinica, Taiwan

July 2020 - Aug 2020

- Program Name “*Long-term changes in water cycling and environmental chemical processing*”

- Analyzing the water isotopic data including hydrogen (δ D) and oxygen (δ 18O)

AWARDS AND FELLOWSHIP

Dean Award of College of Earth Sciences

June 2023

Award of Best Undergraduate Student Project and Report in the Field of Earth Sciences

Nov 2020

Interdisciplinary project in the field of hydrology, geophysics, and geology

Jul 2021 - Jun 2023

- Project Name: “*Study of characteristics of groundwater flow of coastal zone in Zhongli Plateau, Taiwan*”

- Funded by the National Science and Technology Council, Taiwan (4000 USD per year)

Undergraduate Student Research Project

Jul 2020 - Feb 2021

- Project Name: “*Impact on the Hydrological Cycle and Energy Budget in Forest under Drought Events*”

- Funded by the National Science and Technology Council, Taiwan (1600 USD total)

SKILL

- Research Interest: Coupling Groundwater Numerical Model (HyDroGeoChem, HGC), Statistical Testing, Water Scarcity Index (SPI, SI, WEI+)
- Analysis Tools: Python, Matlab, R and Excel