

Tsz-Yi Lin

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KEY COMPETENCIES

Water Engineering

- Surface Water, Hydrology, Groundwater, Hydraulic

Environmental Engineering

- Water Treatment, Risk Assessment, Waste management, Sustainability, Toxicology

Software

- Code: Python, R, Matlab
- Analysis: QGIS, Excel, Flike, SPSS, Prism
- Graphic: AutoCAD, Davinci Resolve

PROFESSIONAL EXPERIENCE

Pells Sullivan Meynink, Sydney, Australia

Engineering Assistant

Dec 2023 - Present

- **Mine rehabilitation**, Yallourn, Victoria
 - Digitalised **hydrograph** and generated **rating curve** for predicting water level
 - Conducted **flood frequency analysis** using **Flike**
- **Suburban Rail Loop**, Melbourne, Victoria
 - Analysed **streamflow, rainfall and groundwater** data using **QGIS**
 - Reviewed **climate change** and **meteorological** studies for designing future rainfall and streamflow scenarios
 - Generated **double mass curve** for analysing historical rainfall trends using **Matlab**
 - Generated **stochastic rainfall** and **streamflow** using **R**
- **Mining groundwater disposal**, Perth, Western Australia
 - Analysed **water quality** and established tables for final report
- **Quarry backfilling**, Penrith, New South Wales
 - Conducted **earthwork audit** to ensure compliance with regulations

Urban Pizza Bar, Sydney, Australia

Team Member

Oct 2022 - Nov 2023

- Delivered fresh and delicious pizza to customers
- Prepared dough and pizza ingredients

Hydrotech Research Institute, Taipei, Taiwan

Hydraulic Engineer

Jan 2022 - Aug 2022

- Implemented **hydraulic physical model** experiments
 - Wastewater pumping station in Xingzhuang, New Taipei City
 - Wushe Reservoir desilting tunnel in Wushe, Nantou County
 - Zengwen Reservoir sediment guiding channel in Dapu, Chiayi County

Ecological Surveyor

Jul 2021 - Nov 2021

- Conducted **ecological survey** for construction impact assessment in Gusan, Taichung City

EDUCATION

University of New South Wales, Sydney, Australia

Master of Engineering (Environmental)

Nov 2022 - Aug 2024

- **Catchment** and **water resources** modelling using **R** and **Matlab**
- **Groundwater** hydrology
- Life cycle and **sustainability** assessment using **Matlab**
- **Water treatment** and **waste management**
- Thesis: Coogee flood resilience assessment

National Taiwan University, Taipei, Taiwan

Master of Science (Environmental)

Nov 2019 - Jul 2021

- Thesis: The amyloid-beta toxicity by chronic silver nanoparticles exposure and its underlying mechanisms in *Caenorhabditis elegans*.
- Performed **biological data analysis** using **SPSS** and **Prism**
- Maintained model organism and conducted **molecular biology** techniques

Bachelor of Engineering Science

Nov 2015 - Jun 2019

- Major in Bioenvironmental Systems Engineering

EXTRACURRICULAR

- **Chairman** of Student's association of the Department of Bioenvironmental Systems Engineering
- **Treasurer** of National Taiwan University Cycling Club
- **Team leader** of badminton club of the Department of Bioenvironmental Systems Engineering
- **Volunteer** of Waker Group at Chiang Rai, Thailand