Yun-Rou, Lin

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Web: https://zol201.github.io/yunroulin960315.gitbub.io/ABOUTME

Profile

Graduate student in Environmental Engineering and Science Program at the University of Illinois Urbana-Champaign (U of I). Proficient in hydraulic modeling software such as HEC-RAS and Sobek, with strong analytical and problem-solving skills. Passionate about developing innovative solutions for flood risk reduction, wastewater treatment, and disaster management. Actively seeking opportunities in environmental or hydraulic engineering.

Education

B.S. | September 2014 - June 2018 | National Sun Yat-sen University, Kaohsiung, Taiwan (ROC)
M.S. | September 2018 - June 2020 | National Yang Ming Chiao Tung university, Hsinchu, Taiwan (ROC)
M.S. | August 2024 - Present | University of Illinois Urbana-Champaign (US)

Skills & Abilities

- Flooding Simulation(HEC-RAS, SOBEK, Flow-3D)
- Computer-Aided Design(AutoCAD, SketchUp)
- Programming(Python, Matlab)
- ArcGIS, Microsoft Office, Photoshop, Illustrator

Research Experience

Graduate Student | National Yang ming Chiao Tung university | September 2018 – June 2020

- Study on LID Improvement of Urban Inundation – application in Hsinchu City Area
  - In the SOBEK model, consider the river system, stormwater sewer system, and side ditches at the same time to simulate more closely the current situation. Analyze the results related to flooding, and find the best solution after comparing different LID settings.

Work Experience

Assistant Engineer | Liming Engineering Consultant Co., Ltd | May 2021-August 2024

- Flooding Mitigation in Wufang Village, Pingtung County, Taiwan(2021-2024)
  - To alleviate the seawater inflow into fish ponds and the city through waterways, we proposed constructing pump stations, raising embankments, and installing automatic gates.
- Preliminary plan for flood control by using NbS in Yunlin County, Taiwan(2022)
  - We not only reduced the use of traditional engineering and also improved flooding and took into account the environment and society more.
- Runoff Allocation Plan in Chiayi City, Taiwan(2023-2024)
  - We plan to store rainwater on land in ponds or other areas to reduce flooding. This keeps less water flowing into rivers and streams, which helps prevent floods.

Other Experience

Leader of yoga club | National Sun-yat Sen University | September 2016- June 2018

Awards & Scholarship

Excellent student award & scholarship| National Sun-yat Sen University | 2015
Excellent graduate award| National Sun-yat Sen University | 2018
Outstanding student scholarship|Sinotech | 2019