HSIEH MENG JU

2000.08.28 | Male | Taiwan (ROC)
xmruuu.rcd.org.tw
mj.hsieh@tum.de
DE +49-15111204107 | TW +886-958082801

I'm a master's researcher at ITBE@TUM, focused on leveraging IT & software development skills to advance the digitalization of the AEC industry. I work with engineering data & digital twin models (BIM) to simulate, optimize and inform decision making. My research aims to enhance the efficiency & quality of life-cycle management and sustainable solutions to today's challenges.

EDUCATION

- **Technical University of Munich** *(2025 QS World Ranking #28 & Germany Ranking #1)* *2024-*
  MSc.ITBE (Master of Science in Information Technologies for the Built Environment) Munich, Germany
- **Chung Yuan Christian University** *2018-2023*
  B.Arch (Bachelor of Architecture) GPA: 3.88 / 4.0 Taoyuan, Taiwan
  –Yan Shih-Hsiao Alumni Scholarship & Award for the Excellent Performance of Professional Study

PROFESSIONAL EXPERIENCE

- **SUNHOU Architects & Partners Association** *2020-2022, 2023-2024*
  Project Executive (Co-op) Taoyuan, Taiwan
  –Won 5+ major competitions and mainly participated in Taipei golf club interior renovation project (GFA 80,000 sq ft), employing parametric design via Grasshopper for efficient construction drawings and complex modeling, total value US $10M+
- **CYCU Higher Education Sprout Project** *2020-2023*
  Publication Editor Taoyuan, Taiwan
  –Contributed to the university receiving the highest national subsidy for 2 consecutive years, exceeding US $52M+, by editing the bi-monthly electronic newsletter from Sep 2020 (15st) to May 2023 (31st) under CYCUHESP
- **KUAN Architect** *2022*
  Project Intern Taoyuan, Taiwan
  –Contributed to major successes in Hsinchu County Library proposal and a residential project, leveraging advanced CAD techniques for complex modeling and ensuring regulatory compliance
- **LWK & Partners (HK) Limited** *(WA100 World's Top 27 Architecture Firm 2024)* *2019*
  Proposal Development Intern Beijing, China
  –Multidisciplinary team on the Westin Quanzhou development, focusing on innovative solutions valued at US $100M

LEADERSHIP & PROJECT EXPERIENCE

- **Constraint Design in Timber Modular Process** *(AEC Hackathon 24' Munich)* *2024*
  –Developed a communication interface for Timber Modular Structure, achieving the highest grade (1.0/sehr gut)
- **Co-Founder, CYCU Research Community for Digital (R.C.D)** *2020-2023*
  –Organized 10+ lectures and workshops on digital fabrication (Robotics, CNC, Laser Cutting, 3D Printing) and programming (Grasshopper), benefiting 200+ participants
  –Managed the digital fabrication laboratory for 2+ years, responsible for 50+ maintenance and operation tasks
- **Social Housing Layout Generating & Environment Optimization** *(Design Thesis Excellence Award)* *2023*
  –Employed a Grasshopper plug-in 'Magnetizing Floor Plan Generator' to assess, model, and refine architectural layouts, expecting an increase in public space utilization and facilitating dynamic social housing solutions
- **Utilizing Agent-Based Model for Campus Planning** *2022*
  –Developed an agent-based simulation model using Grasshopper, conducting typological analysis across various university spaces, identifying lawn segmentation issues, and presenting findings to professors and industry experts
- **Adaptive Prestressed Facade Study Based on Curvature Weaving** *2021*
  –Engineered and tested a curved surface weaving model to simulate stress deformation, potentially reducing shipping space by 5+ times and minimizing construction errors

AWARDS

- **Finalist**, Conceptual Design Competition for CKS Memorial Hall: A Vision for Transforming *2023*
- **Honorable Mention**, Design Competition for Presidential Memorial Library *2022*
- **Honorable Mention**, Keelung Campus Beautification Design Competition *2021*
- **Judges' Award**, Hsinchu 6th Fuel Factory Revitalization Cross-School Joint Exhibition *2021*

SKILLS

- **Programming:** .Net Core(C#), Python, HTML, CSS, JS, SQL | **Software & API:** Revit & Dynamo, Rhino, Grasshopper