

Yen-Chung Hung

PhD in Applied Mathematics

CONTACT

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www.researchgate.net/profile/Yen-Chung-Hung

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SKILLS

- Matlab
- Python
- LaTex
- Office

LANGUAGES

Mandarin : Native

English : C1

French : B1-B2

INTERESTS

Cooking

Volleyball

Bouldering

PROFILE

I am Dr. Yen-Chung HUNG, a researcher in Applied Mathematics specializing in **Computational Fluid Dynamics (CFD)** and **Numerical Partial Differential Equations (PDE)**. My doctoral research at University Savoie Mont Blanc (France) focused on the numerical modeling of coastal breaking waves and morphodynamic coupling. During my PhD, I developed a new mathematical model and implemented the numerical solver from scratch using **Matlab**. My source codes are maintained on **GitHub** to ensure reproducibility and transparency, reflecting my commitment to robust and open-source scientific development.

EXPERIENCE

Post-doctoral Researcher - Université Savoie Mont Blanc

Chambéry, France | Apr. 2025– Jul. 2025

- Continue the research on morphodynamic coupling

Compulsory Military Service | Taiwan | *Sep. 2025– Dec. 2025*

Independent Research | *Jan. 2026 – Present*

- *Preparing manuscripts for articles.*

EDUCATION

PhD - Université Savoie Mont Blanc

Chambéry, France | Sep. 2021– Mar. 2025

The enhanced breaking wave model and morphodynamic coupling

Supervisors: M. Kazakova, J. Chauchat, D. Bresch

Master - National Taiwan University

Taipei, Taiwan | Sep. 2019 – Jun. 2021

A numerical study of hyperbolic models for nonhydrostatic shallow water flow

Supervisors: K. M. Shyue

PUBLICATION

Développement d'un modèle dispersif hyperbolique pour les vagues côtières et implémentation dans Tolosa

A. Duran, M. Kazakova, **Y. C. Hung**, R. Baraille, F. Couderc, J. P. Vila, J. Chauchat, G. L. Richard. *18ème Journées de l'Hydrodynamique.*

Hyperbolic dispersive model for coastal waves (Under submission)

M. Kazakova, **Y. C. Hung**, G. L. Richard

Morphodynamic coupling in hyperbolic breaking wave model (Under submission)

Y. C. Hung, J. Chauchat