

WEI-YANG YU

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EDUCATION

Ph.D. in Industrial Engineering

Aug. 2023 – Present

Major in Statistics

Georgia Institute of Technology, U.S.A.

Advisor: Prof. V. Roshan Joseph

B.S. in Statistics

Sep. 2017 – Jan. 2022

Double Major in Economics

National Chengchi University, Taiwan

EXPERIENCE

Graduate Research Assistant

May. 2024 – Present

Georgia Institute of Technology, U.S.A.

Graduate Teaching Assistant

Aug. 2023 – May. 2024

Georgia Institute of Technology, U.S.A.

- Basic Stat Method - ISYE-3030-B

Research Assistant

Feb. 2022 – Jul. 2023

Institute of Statistical Science, Academia Sinica, Taiwan

Research Assistant

Dec. 2020 – Dec. 2021

National Chengchi University, Taiwan

PUBLICATIONS

Published

- **Yu, W.-Y.** and Joseph, V. R. (2025). Automated Analysis of Experiments using Hierarchical Garrote. *Journal of Quality Technology*, 1-15.
- Li, X.-Y., **Yu, W.-Y.**, and Chang, M.-C. (2023). Design Selection for Two-Level Multi-Stratum Factorial Experiments Based on Swarm Intelligence Optimization. *Journal of the Chinese Statistical Association*, 61:178-206.

Software

- **Yu, W.-Y.** and Joseph, V. R. (2025). HiGarrote: Nonnegative Garrote Method Incorporating Hierarchical Relationships. R package version 2.0.0.

PRESENTATIONS

- **Joint Statistical Meetings, Nashville, August 2025.** *Automated Analysis of Experiments using Hierarchical Garrote.*
- **Spring Research Conference, New York, June 2025.** *Automated Analysis of Experiments using Hierarchical Garrote.*
- **Seminar, Institute of Statistical Science, Academia Sinica, December 2024.** *Automated Analysis of Experiments using Hierarchical Garrote.*
- **Georgia Statistics Day, Emory University, October 2024 (Poster).** *Automated Analysis of Experiments using Hierarchical Garrote.*
- **Spring Research Conference, Banff Centre, Canada, May 2023.** *Swarm Intelligence Optimization for Mixed-level Multi-stratum Factorial Designs.*