CURRICULUM VITAE

THANAWAN PRAHADCHAI

Ph.D. in Statistics

CURRENT POSITION

Lecturer, Department of Statistics, Faculty of Science, Khon Kaen University (KKU), Khon Kaen 40002, Thailand

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RESEARCH FIELD

- Design and Analysis of Computer Experiments
- Statistical Meteorology including Extreme Events and Climate Change
- Statistical Computing

PROGRAM USAGE SKILLS

- R, R Studio
- Python
- SPSS
- TeXstudio

ORCID

0000-0002-7705-3288

EDUCATION

(2021 - 2025)
Ph.D. in Statistics, Chonnam National University, Republic of Korea

(2019 - 2021)
M.Sc. in Statistics, Chonnam National University, Republic of Korea

(2015 - 2019)
B.Sc. in Statistics, Mahasarakham University, Thailand

RECENT ACTIVITIES

- Present a paper at ICAS (2022, 2023, 2024): International Conference on Applied Statistics, Thailand
- Present a paper at ICRES (2024): International Conference on Resources and Environments Sciences, Bangkok, Thailand
- Present a paper at IWSM (2022): International Workshop of Statistical Modelling, Trieste, Italy
- Present a paper at IES (2022): Innovation and Society 5.0: Statistical and Economic Methodologies for Quality Assessment, Department of Economics, University of Campania “L. Vanvitelli”, Italy (Online)

PUBLICATIONS

- Prahadchai, T., Busababodhin, P., and Yoon S. (2025). Distribution-Based Estimation of Hyperparameters for the Negative Power Transformation of the Generalized Extreme Value Distribution. Journal of applied statistics *(under review).*
- Prahadchai, T., Busababodhin, P., and Yoon S. (2025). Using Negative Power Transformation to Model Block Minima. Journal of applied statistics *(under review).*
- Phoophiwfa, T., Chomphuwiset, P., Prahadchai, T., Suraphee S., Volodin A., and Busababodhin, P. (2024). Ensemble machine learning for comprehensive drought assessment: a case study in the mun watershed of northeast, Thailand. Lobachevskii journal of mathematics.

- Prahadchai, T., Shin, Y., Shin, Y., and Busababodhin, P. (2025). Model averaging of nonstationary extreme value models, applied to maximum precipitation in Thailand. Communications for statistical applications and methods, 32(3), 259-400.
- Chomphuwiset, P., Phoophiwfa, T., Prahadchai, T., Volodin A., and Busababodhin, P. (2024). Flood risk assessment using extreme value copulas in khong watershed northeastern, Thailand. Lobachevskii journal of mathematics, 45(12), 6286-6295.
- Phoophiwfa, T., Chomphuwiset, P., Prahadchai, T., Park, J. S., Apichottanakul, A., Theppang, W., and Busababodhin, P. (2024). Employing the generalized Pareto distribution to analyze extreme rainfall events on consecutive rainy days in Thailand's Chi watershed: implications for flood management. Hydrology and earth system sciences, 28(4), 801-816.
- Prahadchai, T., Busababodhin, P., and Park, J. S. (2024). Regional flood frequency analysis of extreme rainfall in Thailand, based on L-moments. CSAM (Communications for statistical applications and methods), 31(1), 37-53.
- Prahadchai, T., Shin, Y., Busababodhin, P., and Park, J. S. (2023). Analysis of maximum precipitation in Thailand using non‐stationary extreme value models. Atmospheric Science Letters, 24(4), e1145.
- Senapeng, P., Prahadchai, T., Guayjarernpanishk, P., Park, J. S., Busababodhin, P. (2022). Spatial modeling of extreme temperature in northeast Thailand. Atmosphere, 13(4), 589.