Sothearith MIN

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🌐 Portfolio: https://sothearith-min.github.io/minsothearith.github.io/

About Me

I am a passionate data analyst and scientific researcher with a strong foundation in statistics and climate change studies. I hold a Bachelor's degree in Statistics and a Master's degree focused on climate change and extreme precipitation analysis. I am skilled in Python, R, and data visualization tools, with a particular interest in geospatial data analysis. My work combines data storytelling, analytical thinking, and technical expertise to uncover insights from complex environmental and societal datasets.

Education

MSc   **Kongju National University**, Civil and Enviromental Engineering   August 2023 – Present
- GPA: 4.29/4.5
- **Research:** Climate change modeling, primary focus on changes in extreme precipitation (heavy rainfall/snowfall).

BSc   **Burapha University**, Statistics   July 2019 – April 2023
- GPA: 3.68/4.0 ([see my final year project ↗])
- **Coursework:** Regression, Quality Control, R, Python, Data Analysis

Experience

Ahn Lab, Research Assistant   Cheonan, South Korea   August 2023 – Present
- **Previous research:** Conducted research on uncertainty in changing rates of extreme precipitation due to rising temperatures, decomposing uncertainty into sources such as Global Climate Models (GCMs), future emission scenarios, and modeling techniques.
- **On-going research:** Investigating the uncertainty in changes of extreme precipitation between past and future climate conditions using GCM simulations. The analysis decomposes extreme precipitation into two separate terms: the dynamic term (related to vertical velocity) and the thermodynamic term (related to atmospheric moisture content).

Chairachakarn Group, Business Development Intern   Chonbori, Thailand   December 2022 – April 2023
- **Project 1:** Utilized the K-means algorithm to cluster JCB company customers by location, optimizing travel planning for sales representatives during after-sales services.
- **Project 2:** Conducted web scraping using Python (*beautifulsoup and regrex*) to extract phone numbers from companies likely in need of JCB's products. Forwarded the obtained numbers to the CRM department for outreach to potential new customers.

Skills

Programming Languages: R, Python, SQL

Data Viz.: PowerBI, Matplotlib, Cartopy, ggplot

Language: Khmer, Thai, English

Scholarships and Grants

- *Full Scholarship for graduate Study in Engineering at Kongju National University, awarded by Ahn Lab*   August 2023

- *Full Scholarship for Undergraduate Study in Statistics at Burapha University, awarded by Royal Scholarship under Her Royal Highness Princess Maha Chakri Sirindhorn Education Project to the Kingdom of Cambodia*   January 2019

Publications

Min Sothearith, Kuk-Hyun Ahn. (2025). Projections and uncertainty decomposition in CMIP6 models for extreme precipitation scaling rates. ***Journal of Hydrology***, 660, 133260. *(Q1, IF = 6.789)*

Min Sothearith, Kuk-Hyun Ahn, Investigating Uncertainty of Projected Extreme Precipitation: A Dynamic and Thermodynamic Perspective. ***(On-going)***

Conferences

Min Sothearith, Kuk-Hyun Ahn (2025). Decomposing Uncertainty in Projected Changes in Extreme Precipitation: A Dynamic and Thermodynamic Perspective. *Korea Water Resources Association Conference*

Min Sothearith, Kuk-Hyun Ahn (2024). Decomposing uncertainty in extreme precipitation scaling rates for future climate projection. *Korea Water Resources Association Conference* ***(International Session Oral Presentation Winner)***