

# Sothearith MIN

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🌐 Portfolio: [minsothearith.github.io](https://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

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|---|------------------------|
| <b>MSC</b> <b>Kongju National University</b> , Civil and Environmental Engineering  | August 2023 – Present  |
| <ul style="list-style-type: none"> <li>• GPA: 4.29/4.5</li> <li>• <b>Research:</b> Climate change modeling, primary focus on changes in extreme precipitation (heavy rainfall/snowfall).</li> </ul> |                        |
| <b>BSc</b> <b>Burapha University</b> , Statistics   | July 2019 – April 2023 |
| <ul style="list-style-type: none"> <li>• GPA: 3.68/4.0 (<a href="#">see my final year project</a> 📄)</li> <li>• <b>Coursework:</b> Regression, Quality Control, R, Python, Data Analysis</li> </ul> |                        |

## Experience

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| <b>Ahn Lab</b> , Research Assistant   | Cheonan, South Korea<br>August 2023 – Present    |
| <ul style="list-style-type: none"> <li>• <b>Previous research:</b> 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.</li> <li>• <b>On-going research:</b> 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).</li> </ul> |  |
| <b>Chairachakarn Group</b> , Business Development Intern  | Chonbori, Thailand<br>December 2022 – April 2023 |
| <ul style="list-style-type: none"> <li>• <b>Project 1:</b> Utilized the K-means algorithm to cluster JCB company customers by location, optimizing travel planning for sales representatives during after-sales services.</li> <li>• <b>Project 2:</b> Conducted web scraping using Python (<i>beautifulsoup and regex</i>) 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.</li> </ul>  |  |

## Skills

**Programming Languages:** R, Python, SQL

**Data Viz.:** PowerBI, Matplotlib, Cartopy, ggplot

**Language:** Khmer, Thai, English

## Scholarships and Grants

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- 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

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**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

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**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**)