

# Curriculum Vate

## Personal Information

**Name:** Kyaw Than Oo

**Gender:** Male

**Birthdate:** 1985-1-21

**Marital status:** Married

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## Education

**1. Ph.D. in Meteorology (2021 – 2025)**

*Nanjing University of Information Science and Technology (NUIST), China*

- *Dissertation: "Comprehensive Study of Spatial-Temporal Variability of Mainland Indochina Monsoon Using New Physical Definition Index"*

**2. Master of Meteorology (2019 – 2021)**

*Nanjing University of Information Science and Technology (NUIST), China*

**3. Professional Certificate in Meteorology (2011 – 2013)**

*Department of Meteorology and Hydrology (DMH), Myanmar*

**4. Bachelor of Computer Science (2002 – 2004)**

*Defense Services Academy (DSA), Myanmar*

## Work Experience

**1. Pilot, Myanmar Air Force (2004 – 2012)**

*Military pilot with operational experience, transitioned to meteorology in 2012.*

**2. Head of Aviation Weather Services, Joint Air Force- Department of Meteorology and Hydrology (DMH, Myanmar) (2012 – Present)**

*Led the meteorology division for aviation safety and weather forecasting.*

**3. Senior Researcher and Lecturer, DMH, Myanmar (2017 – 2021)**

*Lectured on data science and meteorology, training students and professionals.*

**4. Senior Researcher, National Meteorology and Disaster Response Committee (2015 – 2021)**

*Involved in projects focused on extreme weather events and disaster management.*

**5. President, International Meteorology Students Association, NUIST (2020 – 2023)**

*Leading global student collaborations and research initiatives.*

## Current Research

1. **Comprehensive Research on Mainland Indochina Monsoon System (2021 – Present)**  
*Comprehensive study on monsoon variability, using novel indices and climate models (CMIP6).*
2. **Malaria Probability Projection Study (2023 – Present)**  
*Developing the K Malaria Index (KMI) to forecast malaria and dengue outbreaks in tropical Asia, using ensemble data from 34 CMIP6 models.*
3. **Projection of Climate Change Impact Over the Mekong-Lancang Region (2022 – Present)**  
*Studying climate change impacts and proposing adaptation strategies for countries like Myanmar, Laos, Thailand, and China.*

## Conference Presentations

**Keynote Speaker:** 11 times

**Poster Presentation:** 4 times

## Other Professional Affiliations

1. **Editorial Board Member** for “Discovery Atmosphere”
2. **Reviewer** for some science journals such as “Climate Risk Management” and “Climate Dynamic”
3. **Regional Representative** for the “Young Earth System Scientists (YESS) Community”.
4. **Executive working group member** for the “Soth Asian Meteorological Association (SAMA)”

## Awards

1. Chinese Government Scholarship (2019-2021)
2. Chinese Government Scholarship (2021-2025)
3. Jiangsu Government International Excellent Students Scholarship (2023)
4. Jiangsu Government International Students Scholarship (2024)
5. UNESCO, CLIVAR/ODC Summer Training Best Trainee Awards
6. Jiangsu Government International Science Symposium Best oral presentation award
7. Jiangsu Government International Science Symposium Best poster presentation award
8. NUIST 2024 Summer School Best oral presentation award

## Skills

1. **Languages:** Burmese (Native), English (Fluent), Chinese (Basic, HSK-3)
2. **Technical Skills:** Data Science, Climate Statistical Analysis, Numerical Weather Prediction Models and Disaster Management
3. **Software Proficiency:** Python, MATLAB, CDO, OpenGrADS and GIS and Remote Sensing Applications.

## Academic Contributions

Published over 30 articles as first author and some papers as co-author on climate change, dynamic meteorology, and weather reports.

- Presented research at various international conferences and symposiums.

- Involved in public lectures and technical reports on disaster risk reduction and climate resilience strategies.

### **Highlight Publications (First Author Only)**

1. Oo, K. T., Chen, H., Du, X., Jonah, K., Dong, Y., & Zhang, F. (2024). Intraseasonal variability and physical characteristics of the break and active phases of the mainland Indochina southwest monsoon. *International Journal of Climatology: A Journal of the Royal Meteorological Society*. doi:10.1002/joc.8709
2. Oo, K. T., Kazora, J., & Ayugi, B. O. (2024). Future changes in rainfall variability for the mainland Indochina southwest monsoon. *Climate Research*, 93, 57–74. doi:10.3354/cr01744
3. Oo, Kyaw Than, Dong, Y., & Jonah, K. (2024). The variability and predictability of Summer Southwest Monsoon Intensity measurement index across Mainland Indochina: From Local synoptic to Large Scale Perspectives. *Environmental Research Communications*. doi:10.1088/2515-7620/ad8107
4. Oo, Kyaw Than, & Jonah, K. (2024). Interannual variation of summer southwest monsoon rainfall over the monsoon core regions of the eastern Bay of Bengal and its relationship with oceans. *Journal of Atmospheric and Solar-Terrestrial Physics*, 265(106341), 106341. doi:10.1016/j.jastp.2024.106341
5. Oo, Kyaw Than, Chen, H., Dong, Y., & Jonah, K. (2024). Investigating the link between Mainland-Indochina monsoon onset dates and cyclones over the Bay of Bengal basin. *Climate Dynamics*. doi:10.1007/s00382-024-07342-8
6. Oo, Kyaw Than, Jonah, K., & Oo, K. L. (2023). A systematic climatology report of aviation weather hazards on Yangon airport region. *Journal of Multidisciplinary Research Advancements*, 1(2), 89–103. doi:10.3126/jomra.v1i2.61191
7. Oo, Kyaw Than. (2023b). Exploring recent research on definitions of the Myanmar Southwest Monsoon: A comprehensive bibliographic overview. *Journal of Sustainability and Environmental Management*, 2(4), 257–266. doi:10.3126/josem.v2i4.61027
8. Oo, Kyaw Than, Haishan, C., & Jonah, K. (2023). Climate change impact on the trigger of natural disasters over south-eastern Himalayas foothill region of Myanmar: Extreme rainfall analysis. *International Journal of Geophysics*, 2023, 1–20. doi:10.1155/2023/2186857
9. Oo, Kyaw Than. (2023c). Review of the history of mesoscale convective system forecasts on aviation. *Journal of Airline Operations and Aviation Management*, 2(1), 68–85. doi:10.56801/jaoam.v2i1.4
10. Oo, Kyaw Than, Jonah, K., & Thin, M. M. Z. (2023). A systematic review of the pros and cons of digital pollution and its impact on the environment. *Journal of Sustainability and Environmental Management*, 2(1), 61–73. doi:10.3126/josem.v2i1.53118

11. Than Oo, K. (2022). Analysis of the foggy days and its key mechanisms over the Yangon flight region. *Journal of Airline Operations and Aviation Management*, 1(2), 82–105. doi:10.56801/jaoam.v1i2.7
12. Oo, Kyaw Than. (2022). Interannual variability of winter rainfall in Upper Myanmar. *Journal of Sustainability and Environmental Management*, 1(3), 344–358. doi:10.3126/josem.v1i3.48001
13. Oo, Kyaw Than, & Thin, M. M. Z. (2022). Climate change perspective: The advantage and disadvantage of COVID-19 pandemic. *Journal of Sustainability and Environmental Management*, 1(2), 275–291. doi:10.3126/josem.v1i2.45380
14. Oo, Kyaw Than. (2023a). Climatology definition of the Myanmar southwest monsoon (MSwM): Change point index (CPI). *Advances in Meteorology*, 2023, 1–18. doi:10.1155/2023/2346975
15. Oo, K. T., & Oo, K. L. (2022). Analysis of the most common aviation weather hazard and its key mechanisms over the Yangon flight information region. *Advances in Meteorology*, 2022, 1–15. doi:10.1155/2022/5356563