



DR. CHUNG JING XIANG

Lecturer

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QUALIFICATIONS

- ⚓ PhD (Ocean Science), Universiti Kebangsaan Malaysia
- ⚓ MSc (Marine Science), Universiti Kebangsaan Malaysia
- ⚓ BSc (Hons.) (Marine Science, Oceanography), Universiti Kebangsaan Malaysia

FIELD OF RESEARCH

- ⚓ Regional climate downscaling
- ⚓ Climate change
- ⚓ Climatology
- ⚓ Physical oceanography
- ⚓ Remote sensing and GIS

RESEARCH INTEREST

My research focuses mainly on studying the physical aspect of regional atmospheric physical processes in Southeast Asia and conducting regional climate downscaling using dynamical models. Currently I am also an active member of COordinated Regional climate Downscaling Experiment (CORDEX) Southeast Asia. Through my years working towards obtaining my degrees in the field of ocean science from the National University of Malaysia (UKM), I am also capable in conducting physical oceanography studies. My interest on physical oceanography is more on studying the air-sea interaction, i.e., how the atmosphere phenomenon affects the physical processes happening in the ocean. I enjoy and am well-verse with various data, from remotely sensed satellite data, modelled data to station observed measurements. Aside from my research niche, I also work closely with scientists from other fields such as air quality and hydrology.

COURSES TAUGHT

- ⚓ Physical Oceanography (MMS3100A), (Undergraduate), UMT
- ⚓ Marine Productivity (MMS3300), (Undergraduate), UMT
- ⚓ Meteorology (MMS3101), (Undergraduate), UMT
- ⚓ Marine Scientific Data Analyses (MMS3012), (Undergraduate), UMT

PUBLICATIONS

1. Tan, A.L.S., Cheng, M.C.F., Giacoletti, A., **Chung, J.X.**, Liew, J., Sarà, G., Williams, G.A. **2021**. Integrating mechanistic models and climate change projections to predict invasion of the mussel, *Mytilopsis sallei*, along the southern China coast. *Science of the Total Environment*, 762, 143097. **Q1: IF: 6.551**
2. Tan, M.L., Juneng, L., Tangang, F.T., **Chung, J.X.**, Radin Firdaus, R.B. **2021**. Changes in temperature extremes and their relationship with ENSO in Malaysia from 1985 to 2018. *International Journal of Climatology*, 41(S1), pp. E2564–E2580. **Q1: IF: 3.928**
3. Ngai, S.T., Sasaki, H., Murata, A., Nosaka, M., **Chung, J.X.**, Juneng, L., Supari, Salimun, E., Tangang, F. **2020**. Extreme Rainfall Projections for Malaysia at the end of 21st Century using the high resolution Non-Hydrostatic Regional Climate Model (NHRCM). *Scientific Online Letters on the Atmosphere*. **Q3: IF: 1.078**
4. Tangang, F., **Chung, J. X.**, Juneng, L., Supari, Salimun, E., Ngai, S. T., Jamaluddin, A. F., Mohd, M. S. F., Cruz, F., Narisma, G., Santisirisomboon, J., Ngo-Duc, T., Van Tan, P., Singhruck, P., Gunawan, D., Aldrian, E., Sopaheluwakan, A., Grigory, N., Remedio, A. R. C., Sein, D. V., Hein-Griggs, D., McGregor, J. L., Yang, H., Sasaki, H. & Kumar, P. **2020**. Projected future changes in rainfall in Southeast Asia based on CORDEX–SEA multi-model simulations. *Climate Dynamics*. **Q1: IF: 4.048**
5. Jud, M. A., Juneng, L., Tangang, F. T., Latif, M. T., **Chung, J. X.** & Ahamad, F. **2020**. Madden Julian oscillation modulation for surface ozone in Peninsular Malaysia. *Atmospheric Environment*, 233, 117577. **Q1: IF: 4.012**
6. Ngai, S. T., Juneng, L., Tangang, F., **Chung, J. X.**, Salimun, E., Tan, M. L. & Amalia, S. **2020**. Future projections of Malaysia daily precipitation characteristics using bias correction technique. *Atmospheric Research*, 240, 104926. **Q1, IF: 4.114**
7. Supari, Tangang, F., Juneng, L., Cruz, F., **Chung, J. X.**, Ngai, S. T., Salimun, E., Mohd, M. S. F., Santisirisomboon, J., Singhruck, P., PhanVan, T., Ngo-Duc, T., Narisma, G., Aldrian, E., Gunawan, D. & Sopaheluwakan, A. **2020**. Multi-model projections of precipitation extremes in Southeast Asia based on CORDEX-Southeast Asia simulations. *Environmental Research*, 184, 109350. **Q1, IF: 5.026**
8. Ayoub, A. B., Tangang, F., Juneng, L., Tan, M. L., & **Chung, J. X.** **2020**. Evaluation of Gridded Precipitation Datasets in Malaysia. *Remote Sensing*, 12(4), 613. **Q1, IF: 4.118**
9. Tangang, F., Santisirisomboon, J., Juneng, L., Salimun, E., **Chung, JX.**, Supari, S., Cruz, F., Ngai, S. T., Ngo-Duc, T., Singhruck, P., Narisma, G., Santisirisomboon, J., Wongsaree, W., Promjirapawat, K., Sukamongkol, Y., Srisawadwong, R., Setsirichok, D., Phan-Van, T., Aldrian, E., Gunawan, D., Nikulin, G. & Yang, H. **2019** Projected future changes in mean precipitation over Thailand based on multi-model regional climate simulations of CORDEX Southeast Asia. *International Journal of Climatology*. **Q1, IF: 3.601**

10. Yusoff, M. F., Latif, M. T., Juneng, L., Khan, M. F., Ahamad, F., **Chung, JX**, Mohtar, AAA. **2019**. Spatio-Temporal Assessment of Nocturnal Surface Ozone in Malaysia. *Atmospheric Environment* 207(105-116). **Q1, IF: 3.708**
11. Abdul Halim, N. D., Latif, M. T., Ahamad, F., Dominick, D., **Chung, JX**, Juneng, L., Khan, M. F. **2018**. The Long-Term assessment of Air Quality on an Island in Malaysia. *Heliyon* 4(12): e01054. SCOPUS indexed, CiteScore: 1.23
12. Mohtar AAA, Latif MT, Baharudin NH, Ahmad F, **Chung JX**, Othman M, Juneng L. **2018**. Variation of major air pollutants in different seasonal conditions in an urban environment in Malaysia. *Geoscience Letters* 5:21 DOI: 10.1186/s40562-018-0122-y. SCOPUS indexed, CiteScore: 1.33
13. Latif MT, Othman M, Idris N, Juneng L, Abdullah AM, Hamzah WP, Khan MF, Nik Sulaiman NM, Jewaratnam J, Aghamohammadi N, Sahani M, **Chung, JX**, Ahamad F, Amil N, Darus M, Varkkey H, Tangang F, Jaafar AB. **2018**. Impact of regional haze towards air quality in Malaysia: A review. *Atmospheric Environment* 177:28-44. **Q1, IF: 3.708**
14. Khan MF, Maulud KNA, Latif MT, **Chung JX**, Amil N, Alias A, Nadzir MSM, Sahani M, Mohammad M, Jahaya MF, Hassan H, Jeba F, Tahir NM, Abdullah SMS. **2018**. Physicochemical factors and their potential sources inferred from long-term rainfall measurements at an urban and a remote rural site in tropical areas. *Science of The Total Environment* 613-614:1401-1416. **Q1, IF: 4.61**
15. **Chung JX**, Juneng L, Tangang F, Jamaluddin AF. **2018**. Performances of BATS and CLM land-surface schemes in RegCM4 in simulating precipitation over CORDEX Southeast Asia domain. *International Journal of Climatology*. **Q1, IF: 3.1**
16. Jamaluddin AF, Tangang F, **Chung JX**, Juneng L, Sasaki H, Takayabu I. **2017**. Investigating the mechanisms of diurnal rainfall variability over Peninsular Malaysia using the non-hydrostatic regional climate model. *Meteorology and Atmospheric Physics* DOI: 10.1007/s00703-017-0541-x. **Q3, IF: 1.159**
17. Khan MF, Sulong NA, Latif MT, Nadzir MSM, Amil N, Hussain DFM, Lee V, Hosaini PN, Shaharom S, Yusoff NAYM, Hoque HMS, **Chung JX**, Sahani M, Mohd Tahir N, Juneng L, Maulud KNA, Abdullah SMS, Fujii Y, Tohno S, Mizohata A. **2016**. Comprehensive assessment of PM_{2.5} physicochemical properties during the Southeast Asia dry season (southwest monsoon). *Journal of Geophysical Research: Atmospheres* 121:14,589-514,611. **Q1, IF: 3.454**
18. Latif MT, Dominick D, Ahamad F, Ahamad NS, Khan MF, Juneng L, **Chung JX**, Nadzir MSM, Robinson AD, Ismail M, Mead MI, Harris NRP. **2016**. Seasonal and long term variations of surface ozone concentrations in Malaysian Borneo. *Science of The Total Environment* 573: 494–504. DOI: 10.1016/j.scitotenv.2016.08.121. **Q1, IF: 4.9**

19. Khan MF, Latif MT, Saw WH, Amil N, Nadzir MSM, Sahani M, Tahir NM, **Chung JX**. 2016. Fine particulate matter in the tropical environment: monsoonal effects, source apportionment, and health risk assessment. *Atmospheric Chemistry and Physics* 16(2): 597–617. DOI: 10.5194/acp-16-597-2016. **Q1, IF: 5.318**
20. Juneng L, Tangang F, **Chung JX**, Ngai S, Tay T, Narisma G, Cruz F, Phan-Van T, Ngo-Duc T, Santisirisomboon J, Singhruck P, Gunawan D, Aldrian E. 2016. Sensitivity of Southeast Asia rainfall simulations to cumulus and air-sea flux parameterizations in RegCM4. *Climate Research* 69(1): 59–77. DOI: 10.3354/cr01386. **Q3, IF: 1.578**

LINKS

- 📌 Scopus ID: 57097491100
- 📌 ORCID: <https://orcid.org/0000-0002-6323-7588>
- 📌 Google Scholar: <https://scholar.google.com/citations?user=XTCuL-cAAAAJ&hl=en>
- 📌 ResearchGate: <https://www.researchgate.net/profile/Jing-Xiang-Chung>