Yan-Ting Chen

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Research Interests

Climate change, radiation-circulation coupling, radiation variability, thermodynamic and dynamic control of convection

Education

- 2019 **PhD in Atmospheric & Oceanic Sciences**, McGill University. Montreal, Canada. Supervisors: Prof. Yi Huang and Dr. Timothy Merlis
- 08/2023 **Visiting Student Research Collaborator**, Princeton University. New Jersey, USA.
 - 2018 MSc in Atmospheric Sciences, National Taiwan University (NTU). Taipei, Taiwan.Supervisor: Prof. Chien-Ming Wu
 - 2016 **BSc in Physics**, National Tsing Hua University (NTHU). Hsinchu, Taiwan.

Publications

- **Chen, Y.-T.**, Y. Huang, and T. M. Merlis (2023). The global patterns of instantaneous CO₂ forcing at the top-of-atmosphere and surface. *J. Climate*, in press, doi:10.1175/JCLI-D-22-0708.1 [Official version]
- **Chen, Y.-T.**, and C.-M. Wu (2019). The role of interactive SST in the cloud-resolving simulations of aggregated convection. *J. Adv. Model. Earth Syst.*, **11**. doi:10.1029/2019MS001762 [Official version]
- **Chen, Y.-T.** (2018). Aggregation or no aggregation and beyond: from a cloud-resolving model perspective. Master thesis, National Taiwan University, Dept. of Atmospheric Sciences.

Honors and Awards

- o Graduate Mobility Award McGill University, 04/2023
- Outstanding Student Oral Presentation Award 16th Conference on Atmospheric Radiation, American Meteorological Society, 08/2022
- Stephen & Anastasia Mysak Fellowship McGill AOS Department Award, 09/2021–08/2024
- Graduate Excellence Award McGill University, 09/2019–08/2021.
- **Travel Grant** 2nd ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Convective Organization and Climate Sensitivity, 07/2019.
- Student Poster Award Second Place, APEC Typhoon Symposium, 05/2018.
- Student Research Fellowship Summer Student Program, Institute of Physics, Academia Sinica, 07/2015–09/2015.

Invited Talk

o A Minimal Recipe of Instantaneous CO₂ Forcing, National Taiwan University, 06/2023

Professional Services

o Journal Reviewer for Journal of Advances in Modeling Earth Systems

Teaching Experience

Fall 2020– **TA, ATOC 185, 184, 214, 181**, McGill University.

Fall 2017 **TA, Atmospheric Thermodynamics**, NTU.

Spring 2016 **TA, General Physics Laboratory**, NTHU.

Selected Academic Activities

- Princeton Center for Theoretical Science Workshop: From Spectroscopy to Climate, Poster Presentation, 08/2022
- o AMS Collective Madison Meetings Oral Presentation, 08/2022
- o AMS Annual Meeting Oral presentation, 01/2022
- o AGU Fall Meeting Poster presentation, 12/2021
- o CFMIP Virtual Meeting Poster presentation, 09/2021
- 2nd ICTP Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics: Convective Organization and Climate Sensitivity, 07/2019