

Jianan Chen

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EDUCATION

Hong Kong University of Science and Technology Feb. 2021 -
PhD student in Atmospheric Environmental Science
Supervisor: Prof. Xiaoming Shi

The University of Manchester Sept. 2018 -June 2020
Bachelor of Science in Environmental Science (Atmospheric Science)
Thesis advisor: Prof. Geraint Vaughan

Nanjing University of Information Science and Technology Sept. 2015- June 2018
Bachelor of Science in Atmospheric Science

PUBLICATIONS AND PRESENTATIONS

Chen, J. and Shi. X, (2023). Quantifying Global-Warming Response of the Orographic Precipitation in a Typhoon Environment with Large-Eddy Simulations. *Journal of Climate*. DOI:<https://doi.org/10.1175/JCLI-D-23-0018.1>

Chen, J. and Shi. X, (2023). Pseudo Seeder-feeder Mechanism in Orographic Precipitation in a Typhoon Environment and its Response to Global Warming. *Poster Presentation. Asia Oceania Geosciences Society Annual Meeting 2023*, August 2023 (Singapore, Singapore)

Chen, J. and Shi. X, (2022). LES Study of the Interaction between Mountain Waves and Typhoon Outer Region Rainfall under Global Warming. *Oral Presentation. AGU Fall Meeting 2022*, December 2022 (Chicago, Illinois, U.S.)

Chen, J. and Shi. X, (2022). Quantifying the Global-Warming Response of the Orographic Precipitation in a Typhoon Environment with Large-Eddy Simulations. *Oral Presentation. AMS 20th Conference on Mountain Meteorology*, June 2022 (Park City, Utah, U.S.)

TEACHING

Teaching Assistant. Division of Environment and Sustainability, HKUST 2023 Spring
Climate Change: Science, Policy and Management (Instructor: Prof. Xiaoming Shi)

Teaching Assistant. Division of Environment and Sustainability, HKUST 2022 Fall
Climate Change Impacts and Extreme Weather Events (Instructor: Prof. Eun Soon IM)

Teaching Assistant. Division of Environment and Sustainability, HKUST 2022 Spring
Introduction to Sustainability (Instructor: Prof. Xiaoming Shi)

PROFESSIONAL SKILLS

Programming Language

Python Matlab Fortran

Atmospheric Models

Cloud Modeling 1 (CM1), Weather Research and Forecasting Model (WRF)

AWARDS

HKSAR Government Scholarship Fund – Endeavour Merit Award

Research Travel Grant Award (University Grants Committee, Hong Kong, SAR)

First Class Honor Bachelor Degree from The University of Manchester, UK