HING ONG (A.K.A. HENG WANG)

Curriculum Vitae Updated on 17 Feb 2021

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EDUCATION

PhD	University at Albany, State University of NY, Atmospheric Sciences	2020
MS	National Taiwan University, Atmospheric Sciences	2016
BS	National Taiwan University, Atmospheric Sciences	2014

PROFESSIONAL EMPLOYMENT

Postdoctoral Scholar, University of California, Davis 2020 to present

Research Assistant, National Taiwan University 2016 to 2017

HONORS AND AWARDS

2020 **Climate and Global Change Postdoctoral Fellowship**, NOAA (declined)

2019 **Government Scholarship to Study Abroad**, Ministry of Education, Taiwan

2019 **Student Presenter Award—Poster 1st Place**, Annual Meeting, AMS

2014 **Dean's Award**, College of Science, National Taiwan University

PUBLICATIONS

Journal Publications

2021 Skamarock, W. C., **Ong, H.**, & Klemp, J. B., A fully compressible nonhydrostatic deep-atmosphere equations solver for MPAS. *Mon. Weather Rev.*, *149*(2), 571–583.

2020 **Ong, H.**, Comments on "On the structure and formation of UTLS PV dipole/jetlets in tropical cyclones by convective momentum surges". *Mon. Weather Rev.*, *148*(11), 4693–4695.

2020 **Ong, H.**, & Roundy, P. E., The compressional beta effect: Analytical solution, numerical benchmark, and data analysis. *J. Atmos. Sci.*, *77*(11), 3721–3732.

2020 **Ong, H.**, & Roundy, P. E., Nontraditional hypsometric equation. *Q. J. R. Meteorol. Soc.*, *146*(727), 700–706.

2019 **Ong, H.**, & Roundy, P. E., Linear effects of nontraditional Coriolis terms on intertropical convergence zone forced large-scale flow. *Q. J. R. Meteorol. Soc.*, *145*(723), 2445–2453.

2017 **Ong, H.**, Wu, C. M., & Kuo, H. C., Effects of artificial local compensation of convective mass flux in the cumulus parameterization. *J. Adv. Model. Earth Syst.*, *9*(4), 1811–1827.

Journal Paper(s) in Progress

Ong, H., Comments on "Axisymmetric Potential Vorticity Evolution of Hurricane Patricia (2015)". *J. Atmos. Sci.*, in review.

INVITED PRESENTATIONS

2021 "Radiative-convective equilibrium with the nontraditional Coriolis terms," Department of Atmospheric Science, Colorado State University, Fort Collins, CO, Feb 17.

2020 "Is vorticity tilting the primary source of potential vorticity in the eye of a hurricane?" Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan, Dec 22.

2020 "The significance of the nontraditional Coriolis terms in tropical large-scale dynamics," Department of Land, Air and Water Resources, University of California, Davis, CA, Feb 24.

2020 "The significance of the nontraditional Coriolis terms in tropical large-scale dynamics," Research Center for Environmental Changes, Academia Sinica, Taipei, Taiwan, Jan 10.

2020 "The significance of the nontraditional Coriolis terms in tropical large-scale dynamics," Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan, Jan 9.

2019 "The significance of the nontraditional Coriolis terms in tropical large-scale dynamics," Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, MA, Oct 30.

2019 "The significance of the nontraditional Coriolis terms in tropical large-scale dynamics," Mesoscale and Microscale Meteorology Laboratory, National Center for Atmospheric Research, Boulder, CO, Jul 25.

2019 "The significance of the nontraditional Coriolis terms in tropical large-scale dynamics," Central Weather Bureau, Taipei, Taiwan, Jun 20.

2018 "Ertel potential vorticity charging and scaling for the nontraditional Coriolis term," Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan, Jun 26.

TEACHING EXPERIENCE

Teaching Assistant, University at Albany, State University of NY — 2018 to 2020
- Applications of Subseasonal to Seasonal Dynamics
- Ocean Science
- Water and Climate Change
- Atmospheric Dynamics

Teaching Assistant, National Taiwan University — 2014 to 2016
- Lab. of Synoptic Meteorology (Lecturer)
- Fluid Mechanics
- Program and Scientific Computing

PROFESSIONAL SERVICE

Journal Reviewer
- Geophysical Research Letters
- Monthly Weather Review
- Journal of Geophysical Research: Atmospheres
- Journal of Atmospheric Sciences

LANGUAGES

English: Professionally proficient

Chinese Mandarin: Native (my official name, Heng Wang)

Taiwanese Hokkien: Native (my preferred name, Hing Ong)