

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

Curriculum Vitae

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## EDUCATION

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

## PROFESSIONAL EMPLOYMENT

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<b>Postdoctoral Scholar</b> , University of California, Davis	2020 to present
<b>Research Assistant</b> , National Taiwan University	2016 to 2017

## HONORS AND AWARDS

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2020	<b>Climate and Global Change Postdoctoral Fellowship</b> , NOAA (declined)
2019	<b>Government Scholarship to Study Abroad</b> , Ministry of Education, Taiwan
2019	<b>Student Presenter Award—Poster 1st Place</b> , Annual Meeting, AMS
2014	<b>Dean's Award</b> , College of Science, National Taiwan University

## PUBLICATIONS

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### Journal Publications

2020	Skamarock, W. C., <b>Ong, H.</b> , & Klemp, J. B., A fully compressible nonhydrostatic deep-atmosphere-equations solver for MPAS. <i>Mon. Weather Rev.</i> , in production.
2020	<b>Ong, H.</b> , Comments on “On the structure and formation of UTLS PV dipole/jetlets in tropical cyclones by convective momentum surges”. <i>Mon. Weather Rev.</i> , 148(11), 4693–4695.
2020	<b>Ong, H.</b> , & Roundy, P. E., The compressional beta effect: Analytical solution, numerical benchmark, and data analysis. <i>J. Atmos. Sci.</i> , 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.

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### **INVITED PRESENTATIONS**

- 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

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| <b>Teaching Assistant</b> , University at Albany, State University of NY<br>Applications of Subseasonal to Seasonal Dynamics<br>Ocean Science<br>Water and Climate Change<br>Atmospheric Dynamics | 2018 to 2020 |
| <b>Teaching Assistant</b> , National Taiwan University<br>Lab. of Synoptic Meteorology (Lecturer)<br>Fluid Mechanics<br>Program and Scientific Computing  | 2014 to 2016 |

## PROFESSIONAL SERVICE

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

## LANGUAGES

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- English:** Professionally proficient
- Chinese Mandarin:** Native (my official name, Heng Wang)
- Taiwanese Hokkien:** Native (my preferred name, Hing Ong)