

Curriculum Vitae

Chia-Chi Wang

Dept. Atmospheric Sciences

Chinese Culture University

55, Hwa-Kang Rd., Yang-Ming Shan, Taipei 111, Taiwan

Tel: (02)2861-0511 ext. 25833. Fax: (02)2861-5274

E-mail: wjq4@g.pccu.edu.tw

EDUCATION:

- Ph.D. in Earth System Science, University of California - Irvine, Irvine, California, U.S.A. 2005
- M.S. in Atmospheric Sciences, National Taiwan University, Taipei, Taiwan, 1999
- B.S. in Atmospheric Sciences, National Taiwan University, Taipei, Taiwan, 1997

EXPERIENCE:

- 2020/02—present: Professor, Dept. of Atmospheric Sciences, Chinese Culture University
- 2016/02—2020/01: Associate professor, Dept. of Atmospheric Sciences, Chinese Culture University
- 2009/08—2016/01: Assistant professor, Dept. of Atmospheric Sciences, Chinese Culture University (2014/08—2015/07 on leave for baby nursing)
- 2008/04—2009/07: Post-doctoral fellow, Research Center for Environmental Changes, Academia Sinica
- 2005/07—2008/03: Post-doctoral fellow, Department of Earth System Science, University of California, Irvine
- 2005/01—2005/07: Junior specialist, Department of Earth System Science, University of California, Irvine
- 1999/09—2004/12: Research assistant, Department of Earth System Science, University of California, Irvine
- 1997—1999: Research assistant, Department of Atmospheric Sciences, National Taiwan University

RESEARCH INTERESTS:

1. **Understanding the dynamic and thermodynamic processes of large-scale circulations:** I use simplified dynamic models and intermediate complex climate models (a model that has the atmospheric dynamic core with

simplified physical parameterizations) to perform theoretical experiments that investigate the dynamic and thermodynamic processes, focusing on the ITCZ and tropical circulations. I also analyze climate model simulations to understand mechanisms through which the large-scale circulations response to different radiative forcing.

2. **Future projections of East Asia climate:** I analyze climate simulations to assess future projections of various phenomena in East Asia, such as the front frequency and meteorological droughts.
3. **Digitizing historical meteorological data using citizen science:** I collaborate with CWB and private companies to digitize historical meteorological data. We have designed a user-friendly interface for general public to help digitizing the location of fronts on weather charts with the aid of image recognition. Through this project, we can provide gridded data of synoptic weather systems which is valuable for many follow-up studies.

ACADEMIC HONORS AND AWARDS:

- The Distinguished Award for General Education Teachers, Chinese Culture University, 2020
- Outstanding research paper in Atmospheric Sciences, Meteorological Society of the Republic of China, 2020 (corresponding author)
- Excellent Guidance Counselor, Chinese Culture University, 2019
- Excellence in Teaching, Dept. of Atmospheric Sciences, Chinese Culture University, 2016, 2019
- Short-term Visiting Program for Domestic Scholars, Academia Sinica, Taipei, Taiwan, 2012/07-09, 2013/07-09, 2014/07-09, 2016/07-08
- Postdoctoral Fellowship, Academia Sinica, Taipei, Taiwan, 2008/07–2010/06
- National Aeronautics and Space Administration (NASA) Earth System Science Graduate Student Fellowship, 2003/06—2004/12
- Faculty Endowed Fellowship, School of Physical Sciences, UC Irvine, 2004
- Outstanding contributions to the Department of Earth System Science as a Teaching Assistant, 2001–2002
- National Center for Atmospheric Research (NCAR) Advanced Study Program workshop travel award, 2001

RESEARCH PROJECTS:

On-going Projects:

- Investigate processes that lead to simulation biases in tropical convection and precipitation in TaiESM--focusing on double ITCZ (subproject 6). PI, funded by Ministry of Science and Technology, Taiwan, 2022/08— 2023/07
- Taiwan Climate Change projection and adaptation Information Platform (TCCIP), Co-PI, funded by Ministry of Science and Technology, Taiwan, 2022/06—2023/05

Past projects:

- Investigate the use of effective static stability on the mid-latitude baroclinic process. PI, funded by Ministry of Science and Technology, Taiwan, 2021/08— 2022/07
- The influences of SST anomaly on the meridional energy transport (2/3), PI, funded by Ministry of Science and Technology, Taiwan, 2020/08— 2021/07
- Citizens Participate in Meteorological Data project (CPMD), Meteorologist (collaborated with Cloudy bay Information Company), funded by Central Weather Bureau, 2016/08— 2021/12
- Undergraduate research project (Student's name: Yu-Shen Lin), Advisor, funded by Ministry of Science and Technology, Taiwan, 2019/07—2020/02
- The influences of SST anomaly on the meridional energy transport (1/3), PI, funded by Ministry of Science and Technology, Taiwan, 2019/08—2020/07
- WCRP/CMIP6 Consortium for Climate Change Study II (3/3) -subproject: The influence of aerosol cooling effects on tropical circulations, PI, funded by Ministry of Science and Technology, Taiwan, 2018/08—2019/07
- Consortium for Climate Change Study and CMIP6 Taiwan-subproject: The influence of aerosol cooling effects on tropical circulations, Part II. PI, funded by Ministry of Science and Technology, Taiwan, 2017/08—2018/07
- Consortium for Climate Change Study and CMIP6 Taiwan-subproject 9: The impacts of anthropogenic aerosols on tropical convection and circulations, PI, funded by Ministry of Science and Technology, Taiwan, 2016/08—2017/07
- Taiwan Climate Change projection and adaptation Information Platform (TCCIP), Co-PI, funded by Ministry of Science and Technology, Taiwan, 2017/03—2018/09
- Study the vertical structure of summer convection in Taiwan using radar reflectivity, PI, funded by Ministry of Science and Technology, Taiwan, 2015/08--2016/07
- The remote influence of aerosols on tropical precipitation anomaly and the possible mechanisms, PI, funded by National Science Council, Taiwan, 2014/08--2015/07
- 熱帶對流高度的變化, Co-PI, funded by National Science Council, Taiwan, 2014/08--2015/07

- The influence of cloudiness on global mean precipitation rate in the warming climate, PI, funded by National Science Council, Taiwan, 2013/08--2014/07
- GPS 衛星觀測在熱帶對流的應用, Co-PI, funded by National Science Council, Taiwan, 2013/08~2014/07
- Climate variability on intensification rate of tropical cyclones in the western North Pacific, PI, funded by National Science Council, Taiwan, 2012/08--2013/07
- Understanding the ITCZ dynamics, PI, funded by National Science Council, Taiwan, 2009/09--2012/07

COURSES OFFERED:

Atmospheric Dynamics, Tropical Meteorology, Physical Climatology, Climate Dynamics, Graduation Projects, Historical Perspectives on Nature Science (General Education), Applied Meteorology 2 – Cycles in the Atmosphere (General Education).

ONLINE COURSES:

- NCAR Command Language workshop (collaborated with Taiwan Typhoon and Flood Research Institute in 2016)

<http://u.camdemy.com/course/1047/section/lecture>

- Atmospheric Dynamics

<http://u.camdemy.com/course/999/section/lecture>

PROFESSIONAL SERVICES:

- Reviewer of Journal of Climate, American Meteorology Society
- Reviewer of Journal of the Atmospheric Science, American Meteorology Society
- Reviewer of Monthly Weather Review, American Meteorology Society
- Reviewer of Journal Geophysical Research – Atmosphere, American Geophysical Union
- Reviewer of Geoscience Letter, Asia Oceania Geosciences Society
- Reviewer of Atmospheric Sciences, Meteorological Society of the Republic of China (Taiwan) (in traditional Chinese)
- 論文審查委員，中正嶺學報，國防大學理工學院.
- 女科技人電子報第 130 期，客座編輯，女科技人學會 國立高雄科技大學 造船及海洋工程系 / 科技與社會 (STS) 研究中心，2018/10

PUBLICATION:

Journal Paper : (*: corresponding author)

- **Wang, C.-C.***, H.-H. Hsu, and Y.-T. Chen, 2021: Observed and projected frontal activities in East Asia. *J. Clim.*, **34**, 3067-3085. DOI: 10.1175/JCLI-D-19-0959.1

- Lee, Y.-C., **C.-C. Wang***, S.-P. Weng, C.-T. Chen, and C.-T. Cheng, 2019: Future Projections of Meteorological Drought Characteristics in Taiwan. *Atmospheric Sciences*, **47**–**1**. (In Chinese with English abstract). (Outstanding research paper in *Atmospheric Sciences*)
- **Wang, C.-C.***, W.-L. Lee, and C. Chou, 2019: Climate Effects of Anthropogenic Aerosol Forcing on Tropical Precipitation and Circulations. *J. Clim.* **32**, 5275-5287.
- Lee, W.-L.* , K.-N. Liou, **C.-C. Wang**, Y. Gu , H.-H. Hsu, and J.-L. F. Li, 2019: Impact of 3-D Radiation-Topography Interactions on Surface Temperature and Energy Budget Over the Tibetan Plateau in Winter. *J. Geophys. Res: Atmos.*, **124**. (JGR Editor's highlight)
- **Wang, C.-C.***, H.-H. Hsu, Y.-L. Chen, J.-K. Yang, and M.-P. Hung, 2018: The influence of single model ensemble on the simulated extratropical interannual variability. *Terr. Atmos. Ocean. Sci.*, **29**, 679-694, doi: 10.3319/TAO.2018.07.18.01.

Before 2015:

- **Wang, C.-C.***, W.-L. Lee, Y.-L. Chen, and H.-H. Hsu, 2015: Processes Leading to Double Intertropical Convergence Zone Bias in CESM1/CAM5. *J. Clim.* **28**, 2900-2915.
- Lee, W.-L.* , K. N. Liou, and **C.-C. Wang**, 2012: Impact of 3-D topography on surface radiation budget over the Tibetan Plateau. *Theor. Appl. Climatol.*, **109**, Doi 10.1007/s00704-012-0767-y.
- Bain, C., J. De Paz, J. Kramer, G. Magnusdottir*, P. Smyth, H. Stern, and **C.-C. Wang** (2011): Detecting the ITCZ in instantaneous satellite data using spatial-temporal statistical modeling: ITCZ climatology in the east Pacific. *J. Clim.*, **24**, 216--230.
- Scharenbroich, L., G. Magnusdottir, P. Smyth*, H. Stern, and **C.-C. Wang** (2010): A Bayesian framework for storm tracking using a hidden-state representation. *Mon. Wea. Rev.*, **138**, 2132—2148.
- **Wang, C.-C.***, C. Chou, and W.-L. Lee (2010): Breakdown and reformation of the Intertropical Convergence Zone in a moist atmosphere. *J. of Atmos. Sci.*, **67**, 1247–1260.
- Magnusdottir, G.* and **C.-C. Wang** (2008): Intertropical convergence zones during the active season in daily data. *J. of Atmos. Sci.*, **65**, 2425–2436.
- **Wang, C.-C.*** and G. Magnusdottir (2006): The ITCZ in the central and eastern Pacific on synoptic timescales. *Mon. Wea. Rev.*, **134**, 1405–1421.
- **Wang, C.-C.** and G. Magnusdottir* (2005): ITCZ breakdown in 3-dimensional flows. *J. of Atmos. Sci.*, **62**, 1497–1512.

Conference Abstracts, Presentations and, Invited Talks :

- **Wang, C.-C.**, Wei-Cheng Kuo, and Yu-Shen Lin (2022): Evaluation of the Lorenz Energy Cycle in TaiESM1. The 5th Climate Hotpots In Action (CHIA) Forum. Academia Sinica, Taipei, Taiwan.
- **Wang, C.-C.**, Huang-Hsiung Hsu, Ying-Ting Chen (2021): Observed and Projected Frontal Activities in East Asia. The 4th Climate Hotpots In Action (CHIA) Forum. Academia Sinica, Taipei, Taiwan.
- **王嘉琪**、許晃雄、陳英婷(2021)：冬春季東亞鋒面頻率及降水之分析與未來推估。110年天氣分析與預報研討會，交通部中央氣象局，臺北，臺灣
- **王嘉琪**、劉清煌、楊菁華、潘琦、夏裕龍、蘇嵐威、洪國展(2020)：公民參與氣象資料建檔計畫—梅雨季初步結果。109年天氣分析與預報研討會，交通部中央氣象局，臺北，臺灣
- **Wang, C.-C.** (2020): 公民參與氣象資料建檔計畫—梅雨季初步結果. The 3rd Climate Hotpots In Action (CHIA) Forum. Academia Sinica, Taipei, Taiwan.
- **Wang, C.-C.** (2019): 公民參與氣象資料建檔計畫之簡介. National Taiwan University, International Degree Program in Climate Changes and Sustainable Development (IPCS) seminar (invited talk).
- **Wang, C.-C.** (2019): 公民參與氣象資料建檔計畫之簡介. The 2nd Climate Hotpots In Action (CHIA) Forum. Academia Sinica, Taipei, Taiwan.
- **Wang, C.-C.**, W.-L. Lee, and C. Chou (2019): Climate Effects of Anthropogenic Aerosol Forcing on Tropical Precipitation and Circulations. 2019 Conference on Pan-Pacific Anthropocene (ConPPA), Taipei, Taiwan.
- **Wang, C.-C.** (2018): Brief Introduction to Citizen Participation in Meteorological Data (CPMD) Project, Taiwan. The 11th annual ACRE meeting, Minami-Osawa, Japan. (invited talk)
- **Wang, C.-C.**, H.-H. Hsu, Y.-L. Chen, J.-K. Yang, and M.-P. Hung (2018): The influence of single model ensemble on the simulated extratropical interannual variability. 107年天氣分析與預報研討會，交通部中央氣象局，臺北，臺灣
- **Wang, C.-C.**, W.-L. Lee, and C. Chou (2018): The Climate Effect of Anthropogenic Aerosol Forcing on Tropical Precipitation and Circulations. Climate Hotpots In Action (CHIA) Forum. Academia Sinica, Taipei, Taiwan.
- **Wang, C.-C.** (2018): 氣膠冷卻效應對熱帶環流的影響，2018 年大氣科學學門成果發表會暨中華民國氣象學會會員大會。中華民國氣象學會，成功大學，台灣
- **Wang, C.-C.**, C.-C. Chen, and W.-L. Lee (2017): Possible Mechanisms Influencing Tropical Precipitation and Circulation in the Anthropogenic Aerosol Cooling Simulations. The 14th AOGS annual meeting, Singapore.
- W.-L. Lee, K. N. Liou, Y. Gu, **C.-C. Wang**, and H.-H. Hsu (2017): Evaluating Surface Solar Radiation in Mountains and Its Impact on GCM Simulation over the Tibetan

Plateau. The 14th AOGS annual meeting, Singapore.

- **Wang, C.-C.**, C.-C. Chen, and W.-L. Lee (2017): 全球溫度變化影響熱帶降雨的機制探討，2017年大氣科學學門成果發表會暨研究生海報競賽. 中華民國氣象學會，苗栗，台灣
- **Wang, C.-C.**, H.-H. Hsu, and Y.-L. Chen (2016): Simulated Interannual Variability in DEMETER, ENSEMBLES, CFSv2, and CMIP5. The 2016 Taiwan Geosciences Assembly. Taipei, Taiwan.
- **Wang, C.-C.** and C.-C. Chen (2016): 氣膠冷化對熱帶對流及環流的影響。2016年大氣科學學門成果發表會。中華民國氣象學會，台中，台灣
- **Wang, C.-C.**, C.-C. Chen, and C. Chou (2015): The Influence of Aerosols on Tropical Precipitation Anomaly and the Possible Mechanisms. The 12th AOGS annual meeting, Singapore.
- **Wang, C.-C.** and W.-S. Chi (2015): The vertical profiles of convection revealed from surface radar reflectivity in Taiwan. 2015 Taipei Severe Weather and Extreme Precipitation Workshop, Academia Sinica, Taipei, Taiwan.
- **Wang, C.-C.**, W.-L. Lee, Y.-L. Chen, and H.-H. Hsu (2015): Processes Leading to Double Intertropical Convergence Zone Bias in CESM1/CAM5. 2015年大氣科學學門成果發表會暨研究生海報競賽. 中華民國氣象學會，台中，台灣
- **Wang, C.-C.**, W.-L. Lee, Y.-L. Chen, and H.-H. Hsu (2014): The formation and possible mechanism of the double intertropical convergence zone in CESM1/CAM5. The 11th Annual Meeting of Asia Oceania Geosciences Society, Sapporo, Japan.
- **Wang, C.-C.** and C. Chou (2014): The Remote Influence of Aerosols on Tropical Precipitation Anomaly and the Possible Mechanisms. 2014年大氣科學學門成果發表會，國科會自然處地球科學研究推動中心，台中，台灣
- **Wang, C.-C.** (2013): Tropical convection and precipitation. 2013年大氣科學學門成果發表會，國科會自然處地球科學研究推動中心，台中，台灣
- **Wang, C.-C.**, W.-L. Lee, Y.-L. Chen, and H.-H. Hsu (2013): The double ITCZ in CESM1: mean state and seasonal cycle. The 12th East Asian Climate Workshop: New perspectives and Challenges. Busan, Korea.
- **Wang, C.-C.** (2013): The tropical heating profile in CESM. The 2nd CCLICS workshop on climate system modeling. RCEC, Academia Sinica, Taipei, Taiwan.
- **Wang, C.-C.** and C.-W. Lin (2011): The Air-Sea Interaction in the Tropical Eastern Pacific on Synoptic and Intraseasonal Time Scales. The 8th Annual Meeting and Geosciences World Community Exhibition, Taipei, Taiwan, Asia Oceania Geosciences Society.
- **Wang, C.-C.**, C. Chou, and W.-L. Lee (2011): The breakdown and reformation of the ITCZ in the moist atmosphere. Michio Yanai Symposium and the 91st AMS annual meeting, Seattle, WA, Amer. Meteor. Soc.

- Scharenbroich, L., **C.-C. Wang**, H. Stern, P. Smyth, and G. Magnusdottir (2008): A Bayesian framework for storm tracking using a hidden-state representation. In Proceedings of the 19th Conference on Probability and Statistics along with the 88th AMS annual meeting, New Orleans, LA, Amer. Meteor. Soc.
- **Wang, C.-C.** and G. Magnusdottir (2006): Meridional moisture transport by tropical synoptic scale disturbances over the Pacific and Atlantic basins. in Proceedings of the 27th Conf. on Hurricanes and Tropical Meteorology, Monterey, CA, Amer. Meteor. Soc.
- **Wang, C.-C.** and G. Magnusdottir (2005): Characterizing the ITCZ in the central to eastern Pacific on synoptic timescales in observations. in Proceedings of the 15th Conf. on Atmospheric and Oceanic Fluid Dynamics, Cambridge, MA, Amer. Meteor. Soc.
- **Wang, C.-C.** and G. Magnusdottir (2004): An observational study over the tropical east Pacific. in Proceedings of the 26th Conf. on Hurricanes and Tropical Meteorology, Miami, FL, Amer. Meteor. Soc.
- **Wang, C.-C.** and G. Magnusdottir (2003): ITCZ breakdown in 3-dimensional simulations. in Proceedings of the 14th Conf. on Atmospheric and Oceanic Fluid Dynamics, San Antonio, TX, Amer. Meteor. Soc.

Conference Posters:

- **Wang, C.-C.**, W.-L. Lee, Y.-L. Chen, and H.-H. Hsu (2015): Processes Leading to Double Intertropical Convergence Zone Bias in CESM1/CAM5. The 2016 Taiwan Geosciences Assembly. Taipei, Taiwan.
- **Wang, C.-C.**, Y.-C. Chen, L.-S. Tseng and C. Chou (2015): The temperature vertical profile on the intraseasonal timescale—a study using FORMOSAT-3/COSMIC data. 2015 Taipei Severe Weather and Extreme Precipitation Workshop. Academia Sinica, Taipei, Taiwan.
- 紀瑋欣，王嘉琪 (2015): 由雷達資料探討台灣夏季對流垂直結構。2015年大氣科學學門成果發表會暨 研究生海報競賽。中華民國氣象學會，台中，台灣
- 陳其杰，王嘉琪 (2015): 氣溶膠對熱帶降水的遠程影響。2015年大氣科學學門成果發表會暨 研究生海報競賽。中華民國氣象學會，台中，台灣
- **Wang, C.-C.** and C. Chou, 2014: The Remote Influence of Aerosols on Tropical Precipitation Anomaly and the Possible Mechanisms. 2014年大氣科學學門成果發表會，國科會自然處地球科學研究推動中心，台中，台灣
- **Wang, C.-C.** and C.-A. Chen (2012): The Climatic Intensification Rate of Tropical Cyclones over the Western North Pacific. 2012 AGU Fall Meeting, San Francisco, California, U.S.A.
- Chen, C.-A. and **C.-C. Wang** (2011): The Decadal Variability of Tropical Cyclone

Intensification Rate in the Western North Pacific. The 8th Annual Meeting and Geosciences World Community Exhibition, Taipei, Taiwan, Asia Oceania Geosciences Society.

- **Wang, C.-C.** and C.-A. Chen (2011): The Interdecadal Variability of Tropical Cyclone Intensification Rate in the North Western Pacific. 2011 AGU Fall Meeting. San Francisco, California, U.S.A. NSC98-2111-M-034-004-MY3
- 林正偉，王嘉琪 (2011): 東太平洋海氣交互作用之探討。2011年地球科學系統學術論壇—自然資源永續經營管理。台北，台灣
- 陳建安，王嘉琪 (2011): 西北太平洋熱帶氣旋之增強速率分布特徵。2011年地球科學系統學術論壇—自然資源永續經營管理。台北，台灣
- **Wang, C.-C.**, C. Chou, and W.-L. Lee (2011): The breakdown and reformation of the ITCZ in a moist atmosphere. Michio Yanai Symposium and the 91st AMS annual meeting, Seattle, WA, Amer. Meteor. Soc.
- Bain C., G. Magnusdottir, J. De Paz, J. Kramer, P. Smyth, H. Stern, and **C.-C. Wang** (2010): Climatology of the East Pacific ITCZ detected using a statistical model. Western Pacific Geophysics Meeting, Taipei, Taiwan.
- **Wang, C.-C.** and Chia Chou (2009): ITCZ breakdown in the moist atmosphere. European Geosciences Union, Vienna, Austria.
- **Wang, C.-C.**, and G. Magnusdottir (2004): ITCZ Breakdown: An Observational Study over the Tropical East Pacific. Poster. The Global Circulation of the Atmosphere Conference 2004, Pasadena, CA, California Institute of Technology.
- **Wang, C.-C.**, and G. Magnusdottir (2004): ITCZ breakdown in 3-dimensional flows. Poster. 26th Conf. on Hurricanes and Tropical Meteorology, Miami, FL, Amer. Meteor. Soc.

Theses:

- **Wang, C.-C.** (2005): ITCZ breakdown in 3-dimensional flows. Ph.D. thesis. University of California, Irvine, Irvine, CA 92697.
- **Wang, C.-C.** (1999): Land-air-sea interaction during the first transition of the Asian summer monsoon. Master thesis, National Taiwan University. Master thesis, National Taiwan University. (in traditional Chinese)

Popular science Articles:

- 王嘉琪，2022：集眾人之力的氣象研究，科學研習月刊，國立臺灣科學教育館，第 61 卷第 3 期
- 王嘉琪，2021：一下缺水一下暴雨 暖化讓降雨更極端？(封面故事)，科學月刊，2021 年 6 月號(第 618 期)
- 王嘉琪，2021：未來的冬春季鋒面會怎麼變化？科學研習月刊，國立臺灣科學

教育館，第 60 卷第 5 期

- 江鈞、李竑慶、呂奕勳、林育慎、侯宜妤、王嘉琪，2020：下雨了「梅科學研習月刊，國立台灣科學教育館，第 59 卷第 4 期

(獲 108 學年度大氣系畢業成果展專業評分第一名)

- 王嘉琪，2019：接地氣的氣象研究。中華民國氣象學會，2019 會刊
- 王嘉琪，2018：雲的命名之父。科學少年，遠流出版社，2018 年 4 月號
- 王嘉琪，2017：聖嬰現象把颱風趕走了？科學少年，遠流出版社，2017 年 12 月號
- 黃椿喜、王嘉琪，2017：你不知道的梅雨。科學月刊，2017 年 6 月號(第 570 期)
- 王嘉琪，2017：看天氣圖說故事。科學少年，遠流出版社，2017 年 5 月號
- 王嘉琪，2017：氣象觀測法寶大公開。科學少年，遠流出版社，2017 年 4 月號
- 王嘉琪，2016：不能梅有雨。科學少年，遠流出版社，2016 年 6 月號
- 王嘉琪，2016：超級聖嬰來襲(封面故事)。科學少年，遠流出版社，2016 年 4 月號
- 王嘉琪，2016：地球的「御風術」。科學少年，遠流出版社，2016 年 2 月號
- 王嘉琪，2015：是誰讓莫拉克抓狂？科學少年，遠流出版社，2015 年 10,11 月號
- 王嘉琪，2015：炎炎夏日颱風到。科學少年，遠流出版社，2015 年 8,9 月號
- 王嘉琪，2014：收集水氣的濃積雲。科學月刊，第四十五卷第十期
- 王嘉琪，2014：兩種聖嬰譜出的年代週期。科學月刊，第四十五卷第二期（第 530 期）
- 王嘉琪，2013：判讀衛星雲圖 網民智慧搞定(封面故事)。科學月刊，第四十四卷第十一期
- 王嘉琪，2013：換個角度看季風。科學月刊，第四十四卷第十期
- 王嘉琪，2013：熱帶地區密集觀測--DYNAMO 2011 實驗計畫。科學月刊，第四十四卷第二期

COMMUNITY SERVICES:

- 「公民參與氣象資料建檔(CPMD)高中教師研習」講師，新北市普通高級中學地球科學科課程發展中心。2020/8/4
- 判讀衛星雲圖 網民智慧搞定。網路公民參與科學研習講師。
 - 新北市中和區福和國中，中央研究院天文及天文物理研究所。2016/6/1
 - 台北市和平高中，中央研究院天文及天文物理研究所。2016/3/31
 - 中央大學科學教育中心，中央研究院天文及天文物理研究所。2015/10/31
 - 台北市立天文教育館，中央研究院天文及天文物理研究所。2015/7/26
 - 台北市立天文教育館，中央研究院天文及天文物理研究所。2014/9/27
- 氣候預報是什麼？能吃嗎？科學到民間科普演講講師。新北市青少年圖書館，國立台灣大學科學教育發展中心。2015/6/13
- 國科會科學到民間計畫-全國科普年度系列活動，徵文階段（第二階段）科學領域審查委員，國立台灣大學科學教育發展中心。2012/9/5-9/21

- 開發全球氣候變遷教學模組。國立台灣師範大學科學教育研究所。2013--2014

OTHER SERVICES:

- 台北市萬華區大理高中(國中、女中)校友會，監事，2014/08~2016/07
- 台北市萬華區大理高中(國中、女中)校友會，第五、六屆理事長，2016/08~2020/07
- 台北市萬華區大理高中(國中、女中)校友會，理事，2020/08~迄今
- 新北市中和區漳和國中家長會顧問，2020/10~2021/09
- 新北市中和區漳和國中家長代表，2021/10~2022/06

WORKSHOP OFFERED:

- NCAR command language (NCL) workshop, Taiwan Typhoon and Flood Research Institute, National Applied Research Laboratories, Taipei, Taiwan. 2016/08
- Summer workshop on numerical models, LCCR, RCEC, Academia Sinica, Taipei, Taiwan, 2012/09 (5 days)

WORKSHOP ATTENDED:

- Kick-off Workshop on Climate System Modeling, Academia Sinica, Taipei, Taiwan, 2011/11/17—18
- Madden-Julian Oscillation (MJO) workshop, Irvine, CA, 5–7 Nov, 2007, US CLIVAR MJO working group.
- Summer Colloquium on the Tropical Atmosphere and Oceans, Boulder, CO, 9–20 July, 2001, National Center for Atmospheric Research (NCAR) Advanced Study Program.

COMPUTER SKILLS:

Fortran 77, 90/95, NCAR Command Language (NCL), Grid Analysis and Display System (GrADS), C shell script, Linux system administration.