



## ***Hsin-Chien Liang***

### **PERSONAL DETAILS**

**Gender** Man

**Citizenship** Taiwan

**E-mail** lama@gate.sinica.edu.tw/sinchangliang@gmail.com

**Current profession** Research assistant in LCCR/RCEC, Academia Sinica

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### **Research Interests**

- ◆ Tropical Cyclone Analysis and Performance in GCMs.
- ◆ Development of Data Post-Processing Software.
- ◆ Data visualization
- ◆ Global Warming and Climate Change for Sustainable Development or Interdisciplinary

### **Education**

**M.S.:** Department: Department of Earth Sciences, National Taiwan Normal University, Taipei, Taiwan (2011)

**B.S.:** Department: Department of Atmospheric Science, Chinese Culture University, Taipei, Taiwan (2009)

### **Experience**

#### **Research Assistant, Research Center of Environmental Changes, Taipei, Taiwan (2012-Present)**

- ◆ TaiESM and HiRAM model output diagnostic package (NCAR Package, ESMValTools, etc.)
  - ◆ Model output and data post-processing and Database manger
  - ◆ Making FV3GFS and TaiESM output and diagnostic website
  - ◆ TaiESM for C20C+ project and HiRAM for Taiwan Climate Change Projection and Information Platform
  - ◆ Typhoon research and Tropical Cyclone Detection in GCM.
  - ◆ Snow albedo and aerosol research
  - ◆ FV3GFS sensitivity experiments.
  - ◆ Tropical Cyclone Intensification Research Institution abroad
  - ◆ TaiESM/HiRAM-SIT CMIP6 Cmorization.
  - ◆ Future Projection for HengChuen Climate in Global Warming Scenario.
- Advisor: Wei-Liang Lee, Huang-Hsiung Hsu and Chia-Ying Tu

#### **Visitor Student, International Pacific Research Center, Hawaii, USA (Aug/2010 – Sep/2010)**

- ◆ Tropical Cyclone Detection, IPRC Regional Model and ECHAM-Slab Ocean Model
- Advisor: Prof. Yuqing Wang

## **Research Assistant, National Taiwan Normal University, Taipei, Taiwan (2009-2011)**

- ◆ Tropical Cyclone Detection in GCM and Seasonal Forecast

Advisor: Prof. Cheng-Ta Chen

## **Teaching Assistant, National Taiwan Normal University, Taipei, Taiwan (2009-2010)**

## **Undergraduate Research Assistant, Chinese Culture University, Taipei, Taiwan (2008-2009)**

- ◆ Tropical Cyclone Interannual Variability Analysis in WNP

Advisor: Prof. Jien-Yi Tu

## **Honors**

- ◆ ITWF Outstanding Student Poster Award – Excellent. Work in Atmospheric Science (Master), 2011  
International Workshop of Typhoon and Flood, Taiwan (2011)
- ◆ Honorary member, Phi Tau Phi Scholastic Honor Society of. The Republic of China, Taiwan (2011)

## **Publications /Workshop Papers**

Arakane, S., Hsu, H., C. Tu, **Hsin-Chien Liang** et al. Remote effect of a tropical cyclone in the Bay of Bengal on a heavy-rainfall event in subtropical East Asia. *npj Climate and Atmospheric Science* **2**, 25 (2019).  
<https://doi.org/10.1038/s41612-019-0082-8>

Lee, W., Liou, K.N., He, Cenlin, **Hsin-Chien Liang** et al. Impact of absorbing aerosol deposition on snow albedo reduction over the southern Tibetan plateau based on satellite observations. *Theor Appl Climatol* **129**, 1373–1382 (2017). <https://doi.org/10.1007/s00704-016-1860-4>

**Hsin-Chien Liang** et al. Introduction of CMIP5/6 Database in CCliCS. 2019 2<sup>nd</sup> *Climate Hotpots In Action (CHIA) Forum, Taipei, Taiwan*

**Hsin-Chien Liang**, Ping-Gin Chiu et al. Projecting Future Tropical Cyclone Activity Using Two High-Resolution AGCMs. *2016 TCCIP Workshop, Taipei, Taiwan*.

**Hsin-Chien Liang** et al. Dynamic Seasonal Typhoon Ensemble Simulation over Western North Pacific Basin. *2011 AOGS, Taipei, Taiwan*

## **Dissertation and Thesis**

**Hsin-Chien Liang** (2011). Dynamic Seasonal Typhoon Ensemble Simulation over Western North Pacific Basin

## **ICT EXPERIENCE**

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|-------------------------|-------------------------|
| ◆ Bash/Csh              | ◆ NCAR Command Language |
| ◆ Climate Data Operator | ◆ NetCDF Operator       |
| ◆ Fortran               | ◆ Python                |
| ◆ Grads                 | ◆ Unix/Linux            |