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| **Chih-Chi Hu**  *(886)988141451*  *jerryhu001155@gmail.com*  *2F., No.4, Ln. 5, Longquan St., Taipei City, Taiwan (R.O.C.)* |

**RESEARCH INTERESTS**

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| Tropical Cyclones, Synoptic and Mesoscale Meteorology  Numerical Modeling, Data Assimilation, Atmospheric Predictability, Targeted Observations  Large-Scale Atmospheric Dynamics, Turbulence in Atmosphere and Ocean, Air-Sea Interaction  Cloud Dynamics, Cloud Microphysics, Cloud Parameterization |

**EDUCATION**

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| **M.S.**, **National Taiwan University (NTU)**, Taipei, Taiwan. | Feb. 2016 – Jan. 2018 |
| Major: Atmospheric Sciences  Overall GPA: 4.22/4.30 | Major GPA: 4.26/4.30 | |
| **B.S.**, **National Taiwan University (NTU)**, Taipei, Taiwan. | Sep. 2011 – Jan. 2016 |
| Major: Atmospheric Sciences  Minor: Mathematics  Overall GPA: 3.97/4.30 | Major GPA: 4.13/4.30 | |

**AWARDS**

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| Dean’s Award of the College of Science | | Jun. 2018 |
| Best Student Poster Award in AOGS (Asia Oceania Geosciences Society) | | Aug. 2017 |
| Dean’s Award of the College of Science | | Jun. 2015 |
| Presidential Award\* in NTU, Dept. of Atmospheric Science | Feb. 2012, Sep. 2014, Feb. 2015 | |

\* Awarded to students ranking top 5% of the class each semester.

**RESEARCH AND PROFESSIONAL EXPERIENCE**

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| **Research Assistant**, Typhoon Dynamics Research Center (TDRC)\* | Mar. 2018 – Apr. 2018 |
| * Investigated the sensitivity of TC intensification rate to moisture and related thermodynamic variables | |
| **Graduate Research Assistant**, TDRC (Advisor: Prof. Chun-Chieh Wu) | Sep. 2015 – Feb. 2018 |
| * Thesis Topic: The sensitivity Analysis of Tropical Cyclone Track and Intensity – from the Aspect of Ensemble Forecast and Targeted Observation * Adopted the ensemble statistics (modified from previous targeted observation technique) to infer implicit relations between physical factors and TC track and intensity * Identified important relations between the distribution of the equivalent potential temperature and the TC intensification rate, especially in the developing stage of TC | |
| **Teaching Assistant**, *Introduction to Physical Oceanography* | Sep. 2016 – Jan. 2017 |
| * Mentored students with their assignments and final project | |
| **Teaching Assistant**, *Introduction to Atmospheric Dynamics* | Feb. 2016 – Jun. 2016 |
| * Instructed monthly MATLAB workshops and exam review sessions | |
| **Independent Study** (Advisor: Prof. Chun-Chieh Wu) | Sep. 2014 – Jun. 2015 |
| * Reviewed fundamental papers related to tropical cyclones structure and intensity * Summarized and understood the principals and the methods of targeted observation techniques, including the Adjoint-Derived Sensitivity Steering Vector (ADSSV), Singular Vector (SV), Conditional Nonlinear Optimal Perturbations (CNOP), and linear regression ensemble sensitivity like Typhoon-Position-Oriented Sensitivity (TyPOS) | |
| **Internship**, Taiwan Typhoon and Flood Research Institute | Jul. 2014 – Aug. 2014 |
| * Analyzed the rainfall data, using Fortran, of a real typhoon Soulik (2013) from a set of ensemble simulations | |

\* Due to the mandatory military service (Apr. 2018 – Mar. 2019), I will resume as a research assistant after Apr. 2019

**INTERNATIONAL CONFERENCES**

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| **33rd Conf. on Hurricanes and Tropical Meteorology** | Apr. 2018 |
| * C.-C. HU, and C.-C. WU, 2018: The Sensitivity of Tropical Cyclone Intensification Rate Based on Ensemble Method (Poster: 269) | |
| **14th Annual Meeting of Asian Oceania Geosciences Society (AOGS)** | Aug. 2017 |
| * C.-C. HU, and C.-C. WU, 2017: Sensitivity Analysis of Tropical Cyclone Track and Intensity Based on Ensemble Forecasts (Poster: AS10-A058) | |
| **5th Kyoto University and National Taiwan University Program** | Nov. 2016 |
| * C.-C. HU, and C.-C. WU, 2016: Typhoon Track Sensitivity Analysis Based on Ensemble Forecasts (Poster) | |

**SKILLS**

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| **Languages**: Mandarin Chinese (native) and English  **Programing Languages and Packages**: Fortran, Matlab, Python, GrADS, Linux shell script, WRF model |

**EXTRACURRICULAR ACTIVITIES**

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| **Atmospheric Sciences Summer Camp** | Jul. 2012 – Jul. 2015 |
| * Gave short talks in tropical cyclones and in atmospheric measurement and instrumentation * Demonstrated fundamental fluid dynamics experiments | |
| **Department Exposition in the University Fair** | Mar. 2012 – Mar. 2015 |
| * Introduced the department to senior high school students | |
| **Music Clubs: Pop Music Club, Keyboard Club, and Jazz Music Club** | Sep. 2012 – Sep. 2015 |
| * Formed jazz/pop bands for the end of the year performance | |
| **Director of Student Association of Department of Atmospheric Sciences** | Sep. 2013 – Jun. 2014 |
| * Led student activities, including barbecues for all students along the riverside and the annual singing competition * Represented the Department for university-level meetings and events | |