Yu-Ching Chen

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EDUCATION	**National Taiwan University**, Taipei, Taiwan

Bachelor of Science (B.S.) in Physics · Sep 2012 – Jan 2016
- Cumulative GPA: 3.85 / 4.3

RESEARCH EXPERIENCE

University of Illinois at Urbana-Champaign (UIUC)
Research Assistant · Aug 2016 – Current
- Reduced and Analyzed HST data in Large Magellanic Cloud
- Study the interstellar environment of Type 1a supernova remnants in Large Magellanic Cloud
- Supervisor: Dr. Robert Gruendl and Dr. You-Hua Chu

National Center for Supercomputing Applications(NCSA)
Research Assistant · Aug 2016 – Current
- Ran and tested the pipeline for nightly and annual processing in the Dark Energy Survey
- Supervisor: Dr. Robert Gruendl

Academia Sinica, Institute of Astronomy and Astrophysics (ASIAA)
Undergraduate Research Assistant · Oct 2014 – Jul 2016
- Probed the rho-oph A Region with Submillimeter Array and Atacama Large Millimeter/submillimeter Array
- Calibrated the radio data taken by Submillimeter Array in IDL
- Made and improved the images from radio interferometer visibility data
- Joined the remote operation of Submillimeter Array
- Supervisor: Dr. Naomi Hirano
- Research area: Star Formation

Summer Intern · Summer 2014
- Studied Formation of Sun-like Stars Probed with the Atacama Large Millimeter/submillimeter Array
- Supervisors: Dr. Shigehisa Takakuwa, Dr. Naomi Hirano, Dr. Hsi-Wei Yen

Leung Center for Cosmology and Particle Astrophysics (LeCosPA)
Summer Intern · Summer 2015
- Made a small muon detector array with Geiger Muller Tube
- Built the data processing program with Raspberry Pi for the muon detector
- Assisted in the antenna production in the Askaryan Radio Array
- Research areas: Particle Astrophysics

PUBLICATION

"CO depletion in ρ ophiuchi A dense core" **Chen Y.-C.**, Hirano N. · In preparation (expected submission in Jan 2017)

COMPUTATIONAL SKILLS

PROGRAMMING LANGUAGE
Python, Shell Script, C++, ROOT, IDL

RADIO DATA REDUCTION AND ANALYSIS
Miriad, Mir, CASA

OPTICAL DATA ANALYSIS
Ds9, MaxIm DL

OTHERS
SQL, Linux, LaTeX

SUCCESSFUL PROPOSALS

Submillimeter Array, 1 track, 2015B, PI · Oct 2015
Probing the protostar candidate in ρ oph A region with H_2CO and CH_3OH

PRESENTATION

Yu-Ching Chen, *"A Pre-protottellar Core and a Protostar in the rho-Oph A Region"* · Aug 2014
Summer Student Program, ASIAA, Taiwan

LANGUAGES

Chiniese: Native
English: Fluent
Russian: Basic

RESEARCH INTERESTS

Star and Planet Formation, Exoplanets, Supernovae, Active galactic nucleus, Black Holes, Cosmology