

# LI-CHENG FENG (馮立誠)

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## EDUCATION

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- M.S., Physics, National Chaio Tung University (NCTU), Taiwan** Sep. 2018 - present  
GPA : 3.60/4.0 (3.87/4.3) Ranking : 10/45
- B.S., Physics, National Taiwan Normal University (NTNU), Taiwan** Sep. 2014 - June. 2018  
GPA : 3.28/4.0 (3.47/4.3) Last 60 GPA : 3.58/4.0 (3.74/4.3) Ranking : 21/66

## PUBLICATION

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### Main author paper

**Li-Cheng Feng**, David Blum, Guey-Lin Lin, Tobias Lachenmaier, Kuo-Lun Jen, et al. (JUNO Collaboration.), "Obsering MeV Dark Matter with JUNO" (preparing)

### Co-author paper

Yi-Jehng Kuan, Steven B. Charnley, Zbigniew Kisiel, Yo-Ling Chuang, Guan-Ting Su, **Li-Cheng Feng**, "Interstellar Pyrimidine" (preparing)

## SELECTED HONORS

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- **2020 Ministry of Education Exchange Student Scholarship**, for being in the top 30% among the outgoing exchange students in Taiwan, based on GPA. Sep 2020
- **2019 NCTU Institute of Physics Elite Student Award**, for showing high motivation and exceptional academic performance, 3 out of 45 applicants. Apr 2019
- **2018 NCTU Institute of Physics Excellence Entrance Student Scholarship**, for outstanding graduates who enroll in NCTU IoP master's program. 1 out of 30 applicants. Sep 2018
- **Academic Excellence Award, from NTNU**, for being in the top 5% of the department in the semester, based on GPA. Fall 2017
- **2017 UCAT Summer Fellowships**, from the University Consortium of ALMA - Taiwan for conducting scientific research with ALMA. Summer 2017

## RESEARCH EXPERIENCE

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### Graduate Research July. 2018 - present

- Project: Estimate Dark Matter 90% C.L. upper limit cross section for JUNO detector.
- Advisor: Prof. Guey-Lin Lin
- Using Monte Carlo method to simulate the detector signal result from the anti-electron neutrino annihilate from MeV Dark Matter in milky way galaxy, related backgrounds and veto methods.
- Publication "Observing MeV Dark Matter with JUNO" is preparing.

### Undergraduate Research & Summer Student Project Jan. 2017 - June 2018

- Project: Search Interstellar Pyrimidine in Orion KL.
- Advisor: Prof. Yi-Jehng Kuan
- Identify the molecule lines in Orion KL, such as acetic acid, Methyl formate, Alcohol, Ethanol, and so on. Particularly search for pyrimidine upon these complex organic molecules.
- Publication “Interstellar Pyrimidine” is preparing.

## PRESENTATIONS

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### Oral

- “Status update of the DM studies in NCTU”, Regular JUNO Physics/Simulation Online Meeting, Hsinchu, Taiwan. May 2020
- “Capability of MeV Dark Matter Detection in JUNO”, 15th JUNO Collaboration Meeting, Nanning, China. Jan 2020
- “Observing MeV Dark Matter with JUNO”, Regular JUNO Physics/Simulation Online Meeting, Hsinchu, Taiwan. Oct 2019

### Poster

- “Observing MeV Dark Matter with JUNO”, Annual Meeting of the 2020 Physical Society of Taiwan, Pingtung, Taiwan. Feb 2020

## COMPUTING SKILL

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- Python, C++, GEANT4, CASA

## TEACHING EXPERIENCE

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- Teacher Internship, High School Physics, Taichung First Senior High School. Aug. 2020 - Jan 2021
- Teaching Assistant, High Energy Physics Seminar, NCTU. Sep. 2019 - June 2020
- Teaching Practice, High School Physics, the Affiliated Senior High School of National Taiwan Normal University, Secondary Teacher Education Program. Mar. 2018 - May 2018
- Lecturer, Astronomical Observation Workshop, Kenting Observatory Sep. 2018

## MISCELLANEOUS EXPERIENCE

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- Exchange Student, Czech Technical University in Prague. Feb. 2020 - present
- Visiting Student Researcher, University Consortium of ALMA - Taiwan. June 2017 - Sep. 2017
- Guide, Mountaineering Club, NTNU. Oct. 2016 - present
- Member, Photography Club, NTNU. Sep. 2015 - June 2016

Last updated, June 2021