

# Li-Cheng FENG

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## EDUCATION

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**The University of Tokyo - Tokyo, Japan**

04/2022 - now

**Research Student (*Kenkyusei*)**

- Water transparency calibration with Gadolinium cascade photons in Super-Kamiokande
- Muon spallation neutron cut study - DSNB data preprocess

**National Yang Ming Chaio Tung University - Hsingchu, Taiwan**

07/2018 - 11/2021

**M.S. in Physics**

- GPA : 4.08/4.3
- *Research Thesis*: MeV Dark Matter detection with Jiangmen Underground Neutrino Observatory
  - Participated in international-scale JUNO experiment for physics research
  - MeV DM sensitivity estimation with atmospheric  $\nu$ - $^{12}\text{C}$  backgrounds reduced.
  - Contributed to a collaboration publication as first author

**National Taiwan Normal University - Taipei, Taiwan**

09/2014 - 06/2018

**B.S. in Physics**

- GPA : 3.47/4.3 ; Last 60 GPA : 3.75/4.3
- *Research Topic*: Installer Pyrimidine
  - Handled Atacama Large Millimeter Array cycle-4 data for Pyrimidine confirmation
  - Concluded a preliminary detection and led to a poster and a publication
- *Experimental/Computational Physics courses* :
  - General Physics Laboratory(I),(II), Experimental Physics(I),(II),(III) : A, A, A+, A, A
  - Computation Physics(II), Numerical Analysis(I), : A, A-

## PUBLICATIONS

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- [1] **Li-Cheng Feng**, Guey-Lin Lin, David Blum, Tobias Lachenmaier, et. al. (JUNO Collaboration), "Observing MeV Dark Matter with JUNO" (reviewing by JCAP)
- [2] **JUNO Collaboration(L.-C. Feng et al.)**(2022), "Prospects for detecting the diffuse supernova neutrino background with JUNO", JCAP, 10, 033
- [3] **JUNO Collaboration(L.-C. Feng et al.)**(2022), "JUNO physics and detector", Prog. Part. Nucl. Phys. 123, 103927

## SELECTED HONORS

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**Ministry of Education Exchange Student Scholarship**

09/2020

- For being in the top 20% among the outbound exchange students from Taiwan, based on GPA.

**Academic Achievement Award in NCTU** (3 out of 45 competitors)

04/2019

- Earned for ranking in top 3 in department for semester

**National Chiao Tung University Physics Institute Scholarship** (1 out of 30 applicants)

09/2018

- Nominated by my advisor and received grant for graduate studies

**Academic Excellence Award in NTNU** (3 out of 60 competitors)

10/2017

- Earned for GPA ranking the top 5% in department for semester.

# Li-Cheng FENG

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## LANGUAGES AND ANALYSIS SKILL

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- TOEFL 94, JLPT N2, TOEIC 820
- Python, C++, JUNO offline(GEANT4), ROOT, GENIE, CASA
- Scikit learn, Bayesian calculations(MCMC)

## PRESENTATIONS

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### - Oral -

<b>Status update of the DM studies</b> , Regular JUNO Physics Meeting, Online.	05/2020
<b>Capability of MeV Dark Matter Detection</b> , 15th JUNO Collab. Meeting, Nanning, China.	01/2020
<b>Observing MeV Dark Matter with JUNO</b> , Regular JUNO Physics Meeting, Online.	10/2019

### - Poster -

<b>Observing MeV Dark Matter with JUNO</b> , Meeting of the 2020 PSoT, Pingtung, Taiwan.	02/2020
<b>Two Complex Organic Molecules</b> , 664th of Wilhelm und Else Heraeus Seminar, Germany.	03/2018

## MISCELLANEOUS EXPERIENCE

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<b>Exchange Student</b> , Czech Technical University in Prague.	Spring. 2021
<b>Visiting Student Researcher</b> , University Consortium of ALMA - Taiwan.	06/2017 - 09/2017
<b>Guide</b> , Mountaineering Club, NTNU.	10/2016 - present
<b>Member</b> , Photography Club, NTNU.	09/2015 - 06/2016

Last updated, October 2022