

Li-Cheng FENG

KM320, Komaba 4-5-29, Meguro-ku, Tokyo (153041), Japan
<https://indigo40123.github.io/> | indigo40123@gmail.com | +81-80-9644-8357

EDUCATION

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 Chiao Tung University - Hsinchu, 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 ν - ^{12}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

- [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

Japan Taiwan Exchange Association Japan Scholarship

10/2021

- A Full scholarship for the Taiwanese students to pursue Kenkyusei and PhD degree in Japan.

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

4F, No. 15, Xinhe Street, South District, Taichung City (402), Taiwan (R.O.C.)

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LANGUAGES AND ANALYSIS SKILL

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

PRESENTATIONS

- Oral -

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

- Poster -

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

LECTURING EXPERIENCE

- Taichung Municipal Taichung First Senior High School -

Instructor, Experimental Physics, Class 122 Fall 2020

Instructor, Inquiry and Practice, Class 111 Fall 2020

One of the instructors, Enrichment Program in Earth Science : Astrophysics Fall 2020

- National Chaio Tung University -

Teaching Assistant, High Energy Physics Seminar, Fall 2019, Spring 2020

- The Affiliated Senior High School of National Taiwan Normal University -

Instructor, General Physics, Class 1453 Spring 2018

- Ken-Ting Observatory, National Museum of Natural Science -

Lecturer, Astronomical Observation Workshop, 01/2018

MISCELLANEOUS EXPERIENCE

Exchange Student, Czech Technical University in Prague. Spring. 2021

Visiting Student Researcher, University Consortium of ALMA - Taiwan. 06/2017 - 09/2017

Guide, Mountaineering Club, NTNU. 10/2016 - present

Member, Photography Club, NTNU. 09/2015 - 06/2016

Last updated, October 2022