

Chen Li

CONTACT INFORMATION

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Chamberlin Hall, Department of Physics, University of Wisconsin–Madison, 53706

EDUCATION

University of Wisconsin-Madison
Ph.D. candidate in Physics Sep 2024 - Present
Advisor: Dr. Francis Halzen

Wuhan University
B.S. in Physics, GPA: 3.81/4.00 Sep 2020 - June 2024

PUBLICATIONS

C. Li, H. Cai, X. Y. Jiang. Refine Neutrino Events Reconstruction with BEiT-3[J]. Journal of Instrumentation, 2024, 19(06): T06003. [\[arXiv\]](#)

C. Li, H. Y. Ma, X. Y. Jiang. Modification on refitting ammeter using compensation method[J]. (in Chinese, submitted to journal)

TALKS

Transformer Model for Neutrino Events Reconstruction: ISeeCube [\[slides\]](#)
IceCube Collaboration Meeting Fall 2024 Sep 2024

ISeeCube and Auxiliary [\[slides\]](#)
University of Wisconsin-Madison Sep 2024

ISeeCube and Auxiliary [\[slides\]](#)
Tsung-Dao Lee Institute July 2024

TEACHING EXPERIENCE

Teaching Assistant
Wuhan University Sep 2023 - June 2024
Introductory Machine Learning. I mainly teach how to write Machine Learning code in practice and answer questions from students. The teaching material that I wrote are summarized into these blog posts: [Wow It Fits! - Secondhand Machine Learning](#), [Machine Learning Notes: RNN, LSTM, GRU, RWKV](#), [Machine Learning Notes: GNN, GraphNeT](#), [Machine Learning Notes: Maximum Likelihood, Cross Entropy](#).
Advisor: Dr. Xianyang Jiang

WORKING EXPERIENCE

Research Assistant
Wisconsin IceCube Particle Astrophysics Center Aug 2024 - Present
Advisor: Dr. Francis Halzen

Class President
University of Cambridge Aug 2022
Introductory Astronomy. I mainly organize class affairs, communicate with the teacher and write preview notes before lectures. Presentation from our group can be found [here](#).
Advisor: Dr. Matthew Bothwell

PROJECTS	ISeeCube	Aug 2023
	Neutrino Events Reconstruction with Transformer. When having relatively same amount of total parameters, it outperforms other Transformer models. [code]	
	Chinese translation of PEP 8	May 2023
	Get familiar with Python syntax and, weirdly, Markdown indentation. [code]	
	Dr. Slidelove	Apr 2023
	Write in Markdown, then present with offline HTML pages. [code]	
	Reproduce the X-ray variability of a microquasar	Dec 2022
	Use Python to solve stochastic differential equations and visualize the result. [code]	
HONORS AND AWARDS	Academic Scholarship, Wuhan University	2021, 2022, 2023
	First Prize, Third Wuhan University College Student Academic Forum	2021
COMPUTER SKILLS	Familiar: Python, C++, Markdown, \LaTeX Getting familiar: Mojo, Rust, R, HTML, CSS	