

Wei-Chih Huang

	Education
Jun. 2019 Aug. 2019 –	Bachelor of Science in Physics Department National Tsing Hua University, Taiwan Phd in Physics & Astronomy Department Texas A&M University, US
	Fields of Interest Nuetrino Physics, Dark Matter, Cosmology, High Energy Physics, Nuclear Physics
	Research Experience
_	Probing the dark sector with nuclear transition photons $Physics \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
9	Inelastic nuclear scattering from neutrinos and dark matter Physics & Astronomy department, Texas A&M University, US
Nov. 2021 –	Axion-Like Particle Production at Beam Dump Experiments with Distinct Nuclear Excitation Lines
Aug. 2022	Physics & Astronomy department, Texas A &M University, US
	Coherent Elastic neutrino-nucleus Scattering (CEvNS): Sterile Neutrino Search Physics & Astronomy department, Texas A&M University, US
	Inflation and Late-time Acceleration in $f(R)$ Gravity Theory Physics department, National Tsing Hua University, Taiwan
	Dark Matter in Merging Galaxies The University Consortium of ALMA-Taiwan
	Publication
Feb. 2023	Probing the dark sector with nuclear transition photons Bhaskar Dutta, <i>Wei-Chih Huang</i> , Jayden L. Newstead
D 0000	Inelastic nuclear scattering from neutrinos and dark matter
Dec. 2022	Bhaskar Dutta, Wei-Chih Huang, Jayden L. Newstead, Vishvas Pandey

Axion-Like Particle Production at Beam Dump Experiments with Distinct

Nuclear Excitation Lines

Aug. 2022 Loyd Waites, Adrian Thompson, Adriana Bungau, Janet M. Conrad, Bhaskar Dutta, Wei-Chih Huang, Doojin Kim, Michael Shaevitz, Joshua Spitz

Honors and Awards

Three Years Tsing Hua University Scholarship (2% acceptance rate)

2015 - 2018 Tuition wavier, including housing and textbooks

Undergraduate Research Scholarship

Fall 2018 Scholarship for the f(R) gravity project

Data Science Ambassador Scholarship

Fall 2022 Data Science Ambassador Scholarship Program at Texas A&M Institute of Data Science

Scientific Activities

Oct. 2022 Particle Physics on the Plains

Inelastic Dark Matter-Nucleus Scattering in Stopped-pion Experiments using Transition Photons

May. 2022 **2022 Phenomenology Symposium**

Inelastic neutrino-nucleus and dark matter-nucleus scattering

Jul. 2021 Meeting of the Division of Particles and Fields of the American Physical Society (DPF21)

The calculation of inelastic neutrino-nucleus scattering

Oct. 2021 2021 Magnificent CEvNS Workshop

Inelastic neutrino-nucleus and dark matter-nucleus scattering

Summer Atacama Large Millimeter/Submillimeter Array (AMLA)

2018 Summer Student Program

Work/Teaching Experience

Spring 2016 Shu Guang Girls' Senior High school

Teaching Assistant, physics and other science subjects

Fall 2019 TAMU Physics 408, Thermodynamics and Statistical Mechanics

Teaching Assistant (grader)

Spring 2020 TAMU Physics 206, Newtonian Mechanics for Engineering and Science

Teaching Assistant

Summer TAMU Physics 207, Electricity and Magnetism for Engineering and Science

2022 Teaching Assistant (Lab)

Fall 2020 TAMU Physics 207, Electricity and Magnetism for Engineering and Science

Teaching Assistant

- Spring 2021 TAMU Physics 207, Electricity and Magnetism for Engineering and Science Teaching Assistant
 - Fall 2021 TAMU Physics 206, Newtonian Mechanics for Engineering and Science Teaching Assistant
- Spring 2022 TAMU Physics 207, Electricity and Magnetism for Engineering and Science Teaching Assistant
 - Fall 2022 TAMU Physics 207, Electricity and Magnetism for Engineering and Science Teaching Assistant
 - 2022 TAMU physics department
 - 2023 Workshop Lecturer: Data Science in Physics (webpage)

Programming Skills

Python, NumPy, Pandas, Matplotlib, SciPy, PyTorch, TensorFlow Bash, Git, GitHub, Docker, Mathematica, C/C++, Javascript, LaTeX

Extra-Curricular Activities

Spring 2022 - Project Manager at Aggie Coding Club present

Fall 2022 - Data Science Ambassador representing Physics Department at Texas A&M Spring 2023