Wei-Chih Huang

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Education

Aug. 2015 – Jun. 2019	*Bachelor of Science in Physics Department* **National Tsing Hua University, Taiwan**
Aug. 2019 – present	*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

Aug. 2019 – Sep. 2022	**Inelastic nuclear scattering from neutrinos and dark matter** *Physics & Astronomy department, Texas A&M University, US*	arxiv
Nov. 2021 – Aug. 2022	**Axion-Like Particle Production at Beam Dump Experiments with Distinct Nuclear Excitation Lines** *Physics & Astronomy department, Texas A&M University, US*	arxiv
Jan. 2021 – Dec. 2021	**Coherent Elastic neutrino-nucleus Scattering (CEvNS): Sterile Neutrino Search** *Physics & Astronomy department, Texas A&M University, US*	
Nov. 2017 – Aug. 2019	**Inflation and Late-time Acceleration in $f(R)$ Gravity Theory** *Physics department, National Tsing Hua University, Taiwan*	
Jul. 2018 – Aug. 2018	**Dark Matter in Merging Galaxies** *The University Consortium of ALMA−Taiwan*	

Honors and Awards

2015 - 2018	**FlyUP Project Scholarship (3 years)** Tuition wavier, including housing and textbooks
Fall 2018	**Undergraduate Research Scholarship** Scholarship for the $f(R)$ gravity project
Fall 2022	**Data Science Ambassador Scholarship** Data Science Ambassador Scholarship Program at the Texas A&M Institute of Data Science

Scientific Activities

May. 2022	**2022 Phenomenology Symposium**

Inelastic neutrino-nucleus and dark matter-nucleus scattering

Jul. 2021 **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**
2020

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

Programming Skills

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

Extra-Curricular Activities

Spring 2022 - present   Project Manager at Aggie Coding Club

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