

Wei-Chih Huang

✉ s104021230@tamu.edu

📄 noctildon.github.io

in [wei-chih-huang](#)

🌐 [noctildon](#)

Education

Sep. 2015 – *Bachelor of Science in Physics Department*
Jun. 2019 **National Tsing Hua University, Taiwan**
Sep. 2019 – *Phd in Physics & Astronomy Department*
present **Texas A&M University, US**

Fields of Interest

Neutrino Physics, Dark Matter, Cosmology, High Energy Physics, Nuclear Physics

Research Experience

Jan. 2021 – **Coherent Elastic neutrino-nucleus Scattering (CEvNS): Sterile Neutrino Search**
present *Physics & Astronomy department, Texas A&M University, US*

Aug. 2019 – **Inelastic Neutrino-Nucleus scattering using Bigstick and Nuclear Shell Model**
present *Physics & Astronomy department, Texas A&M University, US*

Nov. 2021 – **Axion-Like Particle Production at Beam Dump Experiments with Distinct Nuclear Excitation Lines**
Mar. 2022 *Physics & Astronomy department, Texas A&M University, US*

Nov. 2017 – **Inflation and Late-time Acceleration in $f(R)$ Gravity Theory**
Aug. 2019 *Physics department, National Tsing Hua University, Taiwan*

Jul. 2018 – **Dark Matter in Merging Galaxies**
Aug. 2018 *The University Consortium of ALMA-Taiwan*

Honors and Awards

FlyUP Project Scholarship

2015 - 2018 Tuition waiver, including housing and textbooks

Undergraduate Research Scholarship

Fall 2018 Scholarship for the $f(R)$ gravity project

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

Programming Skills

Python, Mathematica, Bash, C/C++, Javascript

Extra-Curricular Activities

Project Manager at Aggie Coding Club