

JOHN HARRISON

Curriculum Vitae

Department of Physics and Astronomy

Texas A&M University- Victoria

✉ harrisonja2@tamuv.edu

🌐 [My Webpage](#)

ORCID  [Linkedin](#)

Education

- 2022–2024 **PhD, Physics**, *University of Texas at San Antonio*, Advisor: Dr. Eric Schlegel.
Production, Flavor Transformation and Predicting Final States of Entangled Neutrinos
- 2018–2022 : **Master of Science, Physics**, *University of Texas at San Antonio*, San Antonio, TX.
- 2015–2018 : **Bachelor of Science, Physics**, *Texas A&M University- Corpus Christi*, Corpus Christi, TX.

Publications

Journal Articles

- 2024 **John Harrison, Richard Anantua**, High-Energy Neutrino Flavor State Transition Probabilities, In *Applied Sciences*.
<https://doi.org/10.3390/app142210666>
- 2024 **John Harrison, Richard Anantua**, High-Energy Neutrino Flavor State Transition Probabilities, arxiv: 2412.07043.
(hep-ph)

Poster Presentations

- 2018 **John Harrison, Line Pouchard**, Building and customizing a data repository with the Invenio/Zenodo platform, New York Scientific Data Summit.

Conferences/Public Lectures

- 2026 **Math and Robotics Awareness Day**, *From Pythagoras to Newton*, Texas A&M University-Victoria, Victoria, TX.
- 2026 **10th Annual Coastal Bend Mathematics and Statistics Conference**, *High-Energy Neutrino Flavor State Transition Probabilities*, Texas A&M University-Corpus Christi, Corpus Christi, TX.
- 2026 **CETUP*2026**, *High-Energy Neutrino Flavor State Transition Probabilities*, Sanford Underground Research Facility (SURF), Lead, SD.

Research Experience

Brookhaven National Laboratory, Upton, NY

- June, 2018 – ***Building and customizing a data repository with the Invenio/Zenodo platform.***
- August 2018 Built and customized a data repository with the Invenio/Zenodo platform, write a Python script capable of automatically uploading and categorizing metadata as received from the National Synchrotron Light Source II. Python script presented at the New York Scientific Data Summit, August 2018.
- Advisor : **Dr. Line Pouchard**, *Computational Science Initiative*

Academic Achievements & Recognitions

- 2018 Invited to discuss and present Python script from the NSLSII at the New York Scientific Data Summit. Featured in **"NYSDS Program August 2018"**, during 6-8 August 2018 at **Brookhaven National Laboratory, Upton, New York** <https://www.bnl.gov/nysds18>.

Computer skills

Programming Languages Fortran, Python, Matlab, Mathematica, Latex, R, C, C++
Web Technologies HTML 5, Javascript
Database Invenio/Zenodo, SQL, MySQL

Position of Responsibility

2023-present **Chair of the Texas A&M University- Corpus Christi Island Days Outreach**, Corpus Christi, TX.

Professional Affiliations

2016-present **American Physical Society**, College Park, MD.
2016-present **The Planetary Society**, Pasadena, CA.

Service

2018-present **Presenter at Texas A&M University- Victoria (Formerly University of Houston- Victoria until Sept. 2025) Summer STEM Camp**, Victoria, TX.
2021-present **Presenter at Texas A&M University- Corpus Christi Island Days**, Corpus Christi, TX.

Guest Appearances (Podcast/TV)

2024 **Bob After Dark**, *Episode 182: Thermodynamics and the Paranormal*, November 27, 2024.

Lecture Appointments

Spring, **Adjunct Professor, Physics, Texas A&M University- Victoria (Formerly University of Houston- Victoria until Sept. 2025)** , *PHYS 1101, 1102, 1301, 1302*.
2019-present :
Fall, **Instructor, Mathematics, Texas A&M University- Corpus Christi**, *MATH 1314, 1324, 1325,*
2021-present *1442, 2305, 2413, 2414.*
: