

JOHN HARRISON

Curriculum Vitae

Department of Physics and Astronomy
Texas A&M University- Victoria
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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.

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.

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.

Lecture Appointments

Spring, **Adjunct Professor, Physics, Texas A&M University- Victoria (Formerly University of Houston- Victoria until Sept. 2025)** , *PHYS 1102, 1102, 1301, 1302*.

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Fall, **Instructor, Mathematics, Texas A&M University- Corpus Christi**, *MATH 1314, 1325, 1442, 2305, 2413, 2414*.

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