

EDUARDO TIRADO-BUENO

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FIELDS OF RESEARCH INTEREST

- Cosmic Rays
- Heliospheric Physics
- Solar Physics

RESEARCH EXPERIENCE

National Institute for Space Research

Visiting Researcher

São José Dos Campos, São Paulo, Brasil.

Dec. 2019 - Feb. 2020

Royal Observatory of Belgium & Belgian Institute for Space Aeronomy

Visiting Researcher

Uccle, Brussels, Belgium.

Sep. 2019 - Oct. 2019

Institute of Geophysics, UNAM

Visiting Researcher

Mexico City, Mexico

2016

EDUCATION

National Institute of Astrophysics, Optics and Electronics

Ph. D. in Space Science

2023 - Present

National Institute of Astrophysics, Optics and Electronics

M. Sc. in Space Science with Academic Excellence Award.

2020

Benemérita Universidad Autónoma de Puebla

B. Sc. in Physics

2017

SCHOLARSHIPS & HONOURS

National Council for Science and Technology (Mexico)

Graduate Scholarship to conduct graduate studies (Ph. D.)

National Institute of Astrophysics Optics and Electronics (INAOE), Mexico

2023 - Present

National Council for Science and Technology (Mexico)

Graduate Scholarship to conduct graduate studies (M. Sc.)

National Institute of Astrophysics Optics and Electronics (INAOE), Mexico

2018 - 2020

Mexican Academy of Sciences

Undgraduate Scholarship to conduct research activities

2016

SCHOOLS AND WORKSHOPS

- Dynamical Systems and Machine Learning Approaches to Sun-Earth Relations *2021*
- IT Essentials: PC Hardware and Software, CISCO Networking Academy *2011*

SCIENTIFIC PRESENTATIONS

- **Talk**, Seventh Parker Heliophysics Scholars (online). *May, 2024*
- **Invited Seminar**, Seminar on Elementary Particles, BUAP. *May, 2024*
- **Invited Seminar**, School of Physics, University of Costa Rica (online). *Apr. 2024*
- **Invited Seminar**, Universidad Autónoma de Nuevo León, México (online). *Apr. 2024*
- **Poster**, American Geophysical Union 2023, San Francisco, CA. *Sep. 2023*
- **Talk**, Forum on Cosmic Rays in the Heliosphere (online). *Sep. 2023*
- **iPoster**, XII Latin American Conference on Space Geophysics (online). *Nov. 2021*
- **iPoster**, LXIV Meeting of the Mexican Physical Society (online). *Oct. 2021*
- **iPoster**, LXIII Meeting of the Mexican Physical Society (online). *Oct. 2020*
- **Invited Seminar**, Space Geophysics Division DIDGE/CGCEA - INPE, Brazil. *Feb. 2020*
- **Poster**, VII Brazilian Symposium on Space Geophysics and Aeronomy. *Nov. 2018*
- **Poster**, LXI Meeting of the Mexican Physical Society. *Oct. 2018*
- **Talk**, Meeting of the Cosmic Rays Division of the Mexican Physical Society. *Oct. 2018*
- **Invited Talk**, Seminar on New Physics in Accelerators and the Cosmos, BUAP. *Feb. 2017*
- **Poster**, LIX Meeting of the Mexican Physical Society. *Oct. 2016*
- **Poster**, LVIII Meeting of the Mexican Physical Society. *Oct. 2015*
- **Poster**, LVII Meeting of the Mexican Physical Society. *Oct. 2014*

OUTREACH PRESENTATIONS

- **Talk**, Title: The mysteries of the Sun. *Nov. 2023*
- **Talk**, Title: Cosmic Rays and the Heliosphere. *Sep. 2023*

SELECTED SERVICES

- Organizing Committee and Collaborator**, Mexican Astronomy Olympiad. *2018 - 2020*
- Mentor**, BUAP undergraduate student mentoring program. *2015 - 2017*

TEACHING EXPERIENCE

- Math / Physics tutoring**, high school / college level *Present*
- Teaching Assistant / Grader**, Course: Space Physics, at INAOE. *Jun. 2023*
- Teaching Assistant / Grader**, Course: Space Physics, at INAOE. *Jun. 2022*
- Teaching Assistant / Grader**, Course: Space Physics, at INAOE. *Jun. 2021*
- Teaching Assistant / Grader**, Course: Space Physics, at INAOE. *Jun. 2020*
- Guest Lecturer**, Mini Course: Special Relativity. *Aug. 2018*
- Guest Lecturer**, Mini Course: Stellar Properties. *Aug. 2018*
- Math instructor** (high school) *Present*

SKILLS

Programming Languages:

Python, IDL

Software:

L^AT_EX/Overleaf, Office suite, iWork suite

Operating Systems:

MacOS, Unix/Linux, Windows

Languages:

Spanish (native), English, Portuguese

SCIENTIFIC SOCIETIES

Member of the Mexican Physical Society

Present

Member of the American Geophysical Union

Present

PRESS

- [In Spanish] [Sobre la Actividad Solar y Tormentas Geomagnéticas](#), inaoep.mx

May, 2024

PUBLICATIONS

Citations: 2, h -index = 1, [ORCID](#)

- **Journal Articles as Graduate Student:**

E. Tirado-Bueno, J. E. Mendoza-Torres and R. R. S. de Mendonça, *Barometric Coefficient Dependence on the Geomagnetic Cutoff Rigidity of Neutron Monitors*, Advances in Space Research.

DOI: 10.1016/j.asr.2021.04.034

- **Other Journal Articles:**

L. A. Fernández-Ramos, J. E. Mendoza-Torres, O. Gómez-Flores and **E. Tirado-Bueno**, *Charged Particle Reflection in a Magnetic Mirror*, Revista Mexicana de Física E.

DOI: 10.31349/RevMexFisE.21.020211