

# EDUARDO TIRADO-BUENO

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## FIELDS OF RESEARCH INTEREST

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- Cosmic Rays
- Heliospheric Physics
- Solar Physics

## RESEARCH EXPERIENCE

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### 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

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### 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

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### 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

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

## SCIENTIFIC PRESENTATIONS

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- **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

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

## SELECTED SERVICES

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

## TEACHING EXPERIENCE

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- 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

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*Programming Languages:*

Python, IDL

*Software:*

L<sup>A</sup>T<sub>E</sub>X/Overleaf, Office suite, iWork suite

*Operating Systems:*

MacOS, Unix/Linux, Windows

*Languages:*

Spanish (native), English, Portuguese

## SCIENTIFIC SOCIETIES

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**Member** of the Mexican Physical Society

*Present*

**Member** of the American Geophysical Union

*Present*

## PRESS

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

*May, 2024*

## PUBLICATIONS

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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