

# EDUARDO TIRADO-BUENO

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## ORCID

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<https://orcid.org/0000-0001-8462-8345>

## 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 Jos 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

*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

*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

Undergraduate 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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- **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: Cosmic Rays and the Heliosphere. *Sep. 2023*
- **Talk**, Title: The mysteries of the Sun. *Nov. 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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- Guest Lecturer**, Mini Course: Special Relativity. *Aug. 2018*
- Guest Lecturer**, Mini Course: Stellar Properties. *Aug. 2018*

- 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*

- Math / Physics tutoring**, high school / college level *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  
**Member** of the American Geophysical Union

*Present*  
*Present*

## PUBLICATIONS

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- **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. Gmez-Flores and **E. Tirado-Bueno**, *Charged Particle Reflection in a Magnetic Mirror* (in press), Revista Mexicana de Física E.