

## Education

- 08/2024–05/2025 **MS, Biomedical Engineering**, *Fulbright scholar*, Rochester Institute of Technology, Kate Gleason College of Engineering
- 02/2015–12/2019 **BS, Electronic Engineering**, *First of my class*, Technical University of Oruro, National Faculty of Engineering

## Honors & Awards

- Bolivian Fulbright scholar. Selected for a Fulbright scholarship to pursue a Master's degree in the United States of America
- Graduated with Honors. Among the 5% students in the Electrical and Electronic Engineering Program graduated with Academic Excellence

## Soft Skills

- **Ability to self-learn and adapt**
- **Strong teamwork and collaboration skills**
- **Leadership and initiative**

## Research interests

- **Deep learning**
- **Medical image processing**
- **Segmentation**
- **Cardiac image analysis**

## Academic experiences

- 03/2023–07/2024 **Foreigner Research Collaborator**, Federal University of Ceará, Postgraduate Program in Teleinformatics Engineering, Biomedical Data Analytics Research Group
- **Research Collaborator: Medical image processing**  
Conduct research in medical image segmentation using cardiac ultrasound images
- 03/2022 **Lecturer**, Technical University of Oruro, National Faculty of Engineering
- **Workshop: L<sup>A</sup>T<sub>E</sub>X for engineering students**  
Show L<sup>A</sup>T<sub>E</sub>X fundamentals to engineering students and its application as a research tool
- 11/2021 **Organizer**, Technical University of Oruro, National Faculty of Engineering
- **Course: Initial MATLAB, R2021b**  
Structuring the course's academic syllabus
- 07/2018–12/2019 **Teaching Assistant**  
Technical University of Oruro, National Faculty of Engineering
- **Course: Telecommunications I**  
Explain the functioning of telephone networks; show the fundamentals of traffic engineering; Show how the telephone and commute centers work; present an introduction to mobile telephony
- 02/2018–06/2018 **Teaching Assistant**  
Technical University of Oruro, National Faculty of Engineering
- **Course: Computer Networks**  
Explain the fundamentals of computer networks; show the OSI model and communication protocols; demonstrate network theory and design; introduce to network operating systems

02/2016– **Teaching Assistant**

12/2017 Technical University of Oruro, National Faculty of Engineering

- **Course: Drafting - Oratory and Leadership**

Explain scientific drafting concepts; demonstrate oratory techniques, oral and corporal expression; analyze a leader's characteristics and the solving conflicts method

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## Internships

09/2019– **Intern**, Electricity Distribution Company, ENDE DEORURO

11/2019 Area: Technical product quality

- Selected among outstanding students of the Electrical and Electronic Engineering Program to realize an internship at ENDE DEORURO.

Tasks:

- Calibration of electrical network analyzers
- Conduct a frequency domain harmonic analysis on low, medium, and/or high voltages
- Create a database to monitor the in and out of electrical network analyzers

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## Conference papers

- Luis R. Aliendre-Santiváñez, "Graduation terminal efficacy, Electrical and Electronic Engineering Program", *Electrical and Electronic Engineering Program Academic Journal*, Oruro, Bolivia, 12/2021. Available: [here](#)

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## Publications

- Luis R. Aliendre-Santiváñez and Ramiro F. Aliendre-García, "Frequency Signal Convolution using MATLAB", in *Engineering Journal*, vol. 15, no. 1, 2022, ISSN 2412-236X. Available: [here](#)

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## Volunteer activities

05/2025– **Tutor**

Present Tu Beca Bolivia, TBB

- Tutoring Bolivian professionals in searching and applying for graduate school positions abroad

03/2022– **Organizer**

06/2022 IEEE Young Professionals Region 9, English Reading Club

- Reorganize the Reading Club, select the articles to discuss for weekly meetings, supervise the meetings

10/2021– **Volunteer**

12/2021 IEEE Young Professionals Region 9, English Reading Club

- Select the article to discuss for the weekly meetings

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## Academic affiliations

- IEEE Member
  - Communications Society (COMSOC)
  - Signal Processing Society (SPS)
  - Medicine and Biology Society (EMBS)