Luis R. Aliendre-Santiváñez

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Education

02/2015– **BS, Electronic Engineering**, *First of my class*, Technical University of Oruro, National Faculty of
12/2019 Engineering

08/2024– **MS, Biomedical Engineering**, *Fulbright scholar*, Rochester Institute of Technology, Kate Gleason College
Present of Engineering, ending in the spring semester of 2025

Research interests

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

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

Academic experiences

03/2023– **Foreigner Research Collaborator**, Federal University of Ceará, Postgraduate Program in Teleinformatics
07/2024 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: LaTeX for engineering students**
    Show LaTeX 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– **Teaching Assistant**
12/2019 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– **Teaching Assistant**
06/2018 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

Internships

09/2019–
11/2019
Intern, Electricity Distribution Company, ENDE DEORURO
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

Programming skills

- **MATLAB**
- **Python**
- **LaTeX**

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**

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**

Volunteer activities

03/2022–
06/2022
Organizer
IEEE Young Professionals Region 9, English Reading Club

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

10/2022–
12/2022
Volunteer
IEEE Young Professionals Region 9, English Reading Club

- Select the article to discuss for the weekly meetings

Academic affiliations

- IEEE Member, #97978183
  – Communications Society (COMSOC)
  – Signal Processing Society (SPS)
  – Medicine and Biology Society (EMBS)

Referees

- Armengol Blanco Benito, M.Sc.
  Emeritus Lecturer, Electrical and Electronic Engineering Program
  Technical University of Oruro, National Faculty of Engineering
  Email: armengol.blanco@doc.uto.edu.bo
- Victor Hugo Costa de Albuquerque, PhD.
  Lead, Biomedical Data Analytics Research Group
  Professor, Graduate Program in Teleinformatics Engineering
  Federal University of Ceará, Teleinformatics Engineering Department
  Email: victor.albuquerque@lesc.ufc.br