

KIARA MICAELA RODRIGUEZ BAUTISTA

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Education

National University of Engineering

Graduate in Electronic engineering

Belonged to the top 10% of my cohort.

March 2018 – December 2022

Lima, Peru

Research experience

Delft University of Technology

Research Intern, Embedded and Networked Systems Group

Jan – May 2023

Delft, Netherlands

- **Supervisor:** Prof. Marco Zuñiga
- **Mentor:** PhD candidate Miguel Chávez
- **Highlights:**
 - * Worked on Visible Light Backscattering communication, developing a system to convey movement instructions to a robot using light signals.
 - * Research Fellowship at Artificio Inc.
 - * Distinguished participation at Science is Wonderful 2023, Brussels, Belgium.
 - * Presented project talk at HHU, Dusseldorf, Germany.

InnovaLab

Research intern

May 2022 – January 2023

Lima, Peru

- **Supervisor:** Ing. Diego Villa
- Worked on the project called "Machine Learning to prevent Anemia". Developed a system, in R language, of anemia detection base on the dataset ENDES.

University of Alberta

Research intern at Vision and Learning lab

February – May 2022

Edmonton, Canada

- **Supervisor:** Dr. Li Cheng
- **Mentor:** PhD. candidate Jingjing Li
- Worked on the project called "Weakly Supervised Temporal Action Localization". Developed a state of the art and evaluation of previous works on WSTAL.

CTIC UNI

Researcher

August 2021 – January 2023

Lima, Peru

- Smart City team member. Worked on the projects "Automatic License Plate recognition at the National University of Engineering" and "Implementation of a Lora system at UNI".
- Chasqui II team member. Researcher at Energy Power System in the project "Chasqui II", distinguished participation at CubeDesign 2021.

Work experience

Jicamarca Radio Observatory - IGP

Junior Engineer - Hardware Developer

Octubre 2023 – Present

Lima, Peru

- IDI team member. Developing the hardware improvements of JARS(Jicamarca Adquisition Radar System).

LABOTEC

Internship

May – July 2023

Lima, Peru

- Lead the computer vision area. Development of diverse computer vision solutions in an industry environment and the agriculture area.
- Support the IoT team in the development of various projects.

Jicamarca Radio Observatory - IGP

Internship

January – March 2022

Lima, Peru

- Asesor: Ing. Joaquín Blas Verástegui
- IDI team member. Developed the project "Implementación de un sistema receptor y demodulador de RF con SDR para Raspberry Pi"

Technical Skills

Programming Languages: Python, C/C++, Java, Matlab
Languages: Spanish(Native), English(Advance)

Relevant Coursework

- Embedded systems
- Internet of Things
- Machine Learning
- Neural Networks and Deep Learning

Leadership / Extracurricular

Centro Cultural Pedro Paulet

February – December 2022

Research director

UNI

- Incentive research in the Electrical and Electronic Faculty at UNI.

Seeds For The Future 2022

November 2022

Seed

HUAWEI

- Distinguished participation in the program. Successful development of a research project, who envolved areas such as AI, 5G and Cloud Computing.

IEEE Signal Processing Society Student Chapter

March 2020 – December 2021

President

UNI

- Managed executive board of 8 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Organized technical presentations, talks and courses in diverse areas such as Signal Processing, Artificial Intelligence and more.
- Promoted diverse initiatives such as students AI investigation group to increase our knowledge in this area.

INSPIRATE GIRL - UNI

June 2022 – December 2022

Member

UNI

- Promoted and participated in diverse activities that incentive teenagers, especially encourage girls to follow a STEM carrier.

RUA UNI

October 2020 – January 2022

Member

UNI

- Promoted and participated in diverse activities that promoted awareness about environmental issues such as talks and voluntary recycle activities.

Awards

3° place - Hackaton de Innovación UNI+UNMSM+UNALM

September 2023

Neogas team – Prize of \$1000

KOICA

Artificio Fellowship - “Technological University of Delft”, The Netherlands.

December 2022

Scholarship of \$3000

Artificio Inc

3° place - IoT Champions Perú

October 2022

Winners

Comunidad IoT Perú

UARE program (University of Alberta Research Experience)

January 2022

Scholarship of \$6000 CAD

University of Alberta

Conference Publications

- Cajahuaranga A., Aquize Palacios R., Mauricio Villanueva J., Morales-Villanueva A., Machuca J., Contreras J. & **Rodriguez Bautista K.** (2024). *Uncertainty Evaluation of a Gas Turbine Model Based on a Nonlinear Autoregressive Exogenous Model and Monte Carlo Dropout*. DOI: <https://doi.org/10.3390/s24020465>
- Rosadio Vega, G., **Rodriguez Bautista, K.**, Lozano Burga, S. C., Abad Antialon, J. H., & Blas Morales, O. E. (2022). *Design and implementation of DC-DC converters for CubeSat in Simulink. 5th IAA Latin American CubeSat Workshop and 3rd IAA Latin American Symposium on Small Satellites*.(pp.404-414).