

# VICTORIA GUARNIERI

## Biomedical Engineer

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## EDUCATION

### Biomedical Engineering

Mar 2020 – Dec 2025

Facultad de Ingeniería y Ciencias Exactas y Naturales, Universidad Favaloro (FICEN-UF)

- **GPA:** 8.35/10.
- **Final Project:** Data Management in Oncology Research: Development of Integrated Software for *In Vivo* Trials.

**Core Tools:** C/C++, C#, MATLAB, SQL.

**Key Skills:** Teamwork, problem solving, discipline, perseverance.

## WORK EXPERIENCE

### Programa de Inteligencia Artificial en Salud, Hospital Italiano de Buenos Aires

*AI Trainee*

Sep 2024 – Present

- Construction and evaluation of a deep learning model for classification, under supervision.
- Design and execution of an interobserver agreement study to define training labels.
- Technical documentation and experiment tracking.
- Evaluation of external products.

#### Technologies and Tools:

- 🔧 **Python 3.13:** PyTorch, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn. **R 4.3:** tidyverse, ggplot2, plotly, irrCAC.
- 🔧 **Cloud:** AWS SageMaker and AWS S3.
- 🔧 **Version control:** Git, Github and Bitbucket.
- 🔧 **Experiment tracking:** Weights & Biases (wandb).

**Key Skills:** Data analysis and visualization, machine learning, deep learning, image processing, applied statistics.

### FICEN-UF – Department of Mathematics

*Student Assistant*

Aug 2021 – Present

- Assistant in the subjects **Calculus I** (Calculus in one variable), **Calculus II** (Calculus in several variables) and **Calculus III** (Calculus in complex variable).
- Teaching of practical classes and theoretical review.
- Collaboration in the writing, evaluation and correction of partial exams under supervision.

### FICEN-UF – Department of Informatics

*Student Assistant*

Mar 2025 – Jul 2025

- Assistant in the subject **Database**.
- Teaching of practical classes.
- Writing, evaluation and correction of practical assignments.
- Collaboration in the writing, evaluation and correction of partial exams under supervision.

**Core Tools:** MySQL 8.0.

**Key Skills:** Database modeling and normalization, SQL programming.

### Hospital Universitario Fundación Favaloro

*Biomedical Engineering Intern*

May 2024 – Sep 2024

- Supervised professional practice.
- Preventive and corrective technical service tasks. Repair at board and component level; functionality control with biomedical testers; electrical safety control with analyzer; component purchase through the sector's fund.
- Update of protocols, in accordance with IRAM 15 standard and analysis of historical maintenance data.

**Core Tools:** Microsoft Excel, Neovero.

**Key Skills:** Clinical Engineering.

## CERTIFICATIONS

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### **Deep Learning: Neural Networks from Scratch**

*Centro de e-Learning UTN FRBA. Graded. (37 hrs).*

*Jul 2023*

### **Introduction to Unsupervised Machine Learning**

*FICEN-UF (16 hrs).*

*May 2023*

### **Machine Learning with Python**

*Centro de e-Learning UTN FRBA. Graded. (60 hrs).*

*May 2023*

### **Introduction to Python oriented to algorithms and competitive programming techniques**

*IEEE UF, IEEE WIE y LambdaClass (20 hrs).*

*Nov 2020*

## ATTENDANCE AT CONGRESSES AND CONFERENCES

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**XX Health Informatics Conference JIS Summit of Hospital Italiano de Buenos Aires.** *Centro Metropolitano de Diseño, Ciudad Autónoma de Buenos Aires, Argentina. Hybrid event. 7 to 9 November 2025.*

**Update Workshop on Vulvar Pathology of the Iberoamerican Society of Vulva and Vagina (SIAVV).** *Yacht Club Puerto Madero, Ciudad Autónoma de Buenos Aires, Argentina. 24 October 2025.*

**XXV Argentinian Congress of Bioengineering, the XIV Clinical Engineering Conference and the III Latin American Conference on Clinical Engineering, SABI-2025.** *Hotel 13 de Julio, Mar del Plata, Argentina. 14 to 17 October 2025.*

**XXIX Scientific Meeting of the Argentinian Group of Biostatistics, GAB 2025.** *Universidad Nacional del Nordeste, Corrientes, Argentina. 1 to 3 October 2025.*

**II Statistics Teaching Conference.** *Universidad Nacional del Nordeste, Corrientes, Argentina. 30 September 2025.*

**XVIII Health Informatics Conference JIS Summit of Hospital Italiano de Buenos Aires.** *Centro Metropolitano de Diseño, Ciudad Autónoma de Buenos Aires, Argentina. Hybrid event. 1 to 3 November 2023.*

**XXIV Argentinian Congress of Bioengineering and the XIII Clinical Engineering Conference, SABI 2023.** *Universidad Nacional de Arturo Jauretche, Florencio Varela, and Centro Cultural Kirchner, Autonomous City of Buenos Aires, Argentina. 3 to 6 October 2023.*

**XXIII Argentinian Congress of Bioengineering and the XII Clinical Engineering Conference, SABI 2022.** *Universidad Nacional de San Juan, San Juan, Argentina. 13 to 16 September 2022.*

## POSTER PRESENTATIONS

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**Determination of interobserver agreement degree for categorical variables: a case study.** *GAB 2025. Rusconi Lagarrigue A.B., Sguiglia S., Guarnieri V., et al.*

**Determination of the interobserver agreement degree in medical image segmentation: a case study.** *GAB 2025. Sguiglia S., Rusconi Lagarrigue A.B., Guarnieri V., et al.*

## ORAL PRESENTATIONS

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**Interobserver agreement study in the assessment of pressure ulcer images.** *JIS SUMMIT 2025. Rusconi Lagarrigue A.B., Sguiglia S., Guarnieri V.*

**Artificial Intelligence in medical practice.** *Jornada SIAYV. Caridi J., Guarnieri V.*

## SCHOLARSHIPS AND RECOGNITIONS

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🏆 **Undergraduate Research Fellowship (BIE), UF**

*Feb 2022 – Feb 2025*

🏆 **Second National Flag Escort (Honor Guard) - ranked 3rd highest GPA., FICEN-UF**

*Academic year 2024*

## LANGUAGE

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**English** (Basic competence, technical reading and scientific writing).

# VOLUNTEERING

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## Capítulo estudiantil de la Sociedad Argentina de Bioingeniería

### *Student Representative*

*Mar 2024 – Oct 2025*

- Project and event management.
- Communication and dissemination of technological and scientific events.