Victoria Guarnieri
Biomedical Engineer

✉ vickyguarnieri1@gmail.com | 📞 +54 9 11 3041-0475 | 📍 Buenos Aires, Argentina

⌗ vickyguar | 💼 victoria-guarnieri- | 🪪 DNI 43.660.111

EDUCATION

Biomedical Engineering *Mar 2020 – Dec 2025*
Facultad de Ingeniería y Ciencias Exactas y Naturales, Universidad Favaloro (FICEN-UF)

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

Core tools: Python, C/C++, C#, MATLAB, SQL.

Skills: Teamwork, problem solving, discipline, perseverance.

WORK EXPERIENCE

Programa de Inteligencia Artificial en Salud, Hospital Italiano de Buenos Aires
AI Trainee *Sep 2024 – Present*

– Developed and validated a deep learning model for medical image classification.
– Design and execution of an interobserver agreement study to define training labels.
– Technical documentation and experiment tracking.
– Evaluation of external products.

Core tools: Python 3.13 (PyTorch, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Pyplot); **AWS services** (AWS SageMaker, S3); **version control** with Git, Github, Bitbucket; **experiment tracking** with Weights & Biases (wandb); **R 4.3** (tidyverse, ggplot2, plotly, irrCAC).

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** (single-variable calculus), **Calculus II** (multivariable calculus) and **Calculus III** (complex analysis).

FICEN-UF – Department of Informatics
Student Assistant *Mar 2025 – Jul 2025*

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

Core tools: MySQL 8.0.

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. Board-level and component-level repair; 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.

Skills: Clinical Engineering.

CERTIFICATIONS

Deep Learning: Neural Networks from Scratch *Jul 2023*
Centro de e-Learning UTN FRBA. Graded. (37 hs).

Introduction to Unsupervised Machine Learning *May 2023*
FICEN-UF (16 hs).

Machine Learning with Python *May 2023*
Centro de e-Learning UTN FRBA. Graded. (60 hs).

Introduction to Python oriented to algorithms and competitive programming techniques *Nov 2020*
IEEE UF, IEEE WIE y LambdaClass (20 hs).

LANGUAGE

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

CONFERENCE ATTENDANCE

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, Ciudad Autónoma de 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

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

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 SIAVV. Caridi J.,* **Guarnieri V.**

SCHOLARSHIPS AND AWARDS

⚲ **Undergraduate Research Fellowship (BIE)**, UF — *Feb 2022 – Feb 2025*
⚲ **Second National Flag Escort (Honor Guard)** - *ranked 3rd highest GPA.*, FICEN-UF — *Academic year 2024*

VOLUNTEERING

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.