

# ANDREA BELLI CONTARINI

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## SKILLS

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- **Languages:** Italian (Native), English (Fluent), Spanish (Advanced), French (Basic)
- **Programming Languages:** Python, C, C++, HTML, SAS, SQL.
- **Frameworks:** PyTorch, TensorFlow, LangChain, Scikit-Learn, OpenCV, Pandas, NumPy, Matplotlib.
- **Technologies:** Machine Learning, Computer Vision, Feature Engineering, Statistical Modeling.
- **Tools & Platforms:** Jupyter, Google Colab, Google Cloud Platform, GitHub, Make, n8n, Voiceflow.

## RELEVANT PROJECTS

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- *Visual Tracking and Collision Detection in Spinning Tops Simulations: A Custom Dataset and Kalman-Filter Based Approach* (Computer Vision). Publication expected by end of 2025.
- *Deep learning for Osteoporosis Detection from MRI Scans* (ML in Medical Imaging). Publication expected by end of 2025.
- *Custom U-Net-based Model for Semantic Segmentation of COVID-Affected Lung Tissues* (ML in Medical Imaging).
- *Flavor Tagging Classification of Bottom-Quark Jets vs. Charm Jets using FFNN and LSTM architectures* (Deep Learning in High-Energy Physics).

Link to articles and projects here: [PORTFOLIO](#).

## EXPERIENCE

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### Co-Founder & AI Engineer

**Martes AI** – <https://www.martes-ai.com>

📅 2024 – Present

- Founded an AI Automation Agency focused on business process optimization.
- Design and deployment of AI agents using advanced ML algorithms (e.g. CNNs, Random Forest) and RAG techniques for automating workflows, content generation, and enhancing user interaction on web platforms.

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### Data Analyst

**SAS Institute**

📅 Nov 2022 – May 2023

📍 Rome, Italy

- Conducted analysis of clients' functional and technical requirements and customized their software solutions (Customer Intelligence).
- Focused on CRM analytics and reporting related to Customer Journey of banking products on web and mobile platforms.

# EDUCATION

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## Internship and Research Thesis: Physics

Université de Genève

Feb – Jul 2025 Geneva, Switzerland

- Thesis: *Wind-Wave Interaction and Reconstruction of the Multidimensional Wave Spectrum*.  
Developed software to remotely control and synchronize two cameras for wave recording and 3D surface reconstruction using the WASS algorithm.

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## Master's degree: Physics (Major: Computational Physics)

Sapienza University of Rome

Sep 2023 – Sep 2025 Rome, Italy

- GPA: 29.13/30
- Relevant exams: *Computer Vision, Applied Machine Learning, Computational Methods and Simulations*.

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## Bachelor's degree: Physics

Sapienza University of Rome

2019 – 2022 Rome, Italy

- Final grade: 107/110
- Relevant exams: *Computing of Probability, Machine Learning and A.I. Methods*
- Thesis: *Jet Flavor Classification in High-Energy Physics with Deep Neural Networks* (Supervisor: S. Giagu)

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## High School Diploma

Liceo Scientifico J.F. Kennedy

2014 – 2019 Rome, Italy

- Final grade: 100/100

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## Exchange Program

The Odyssey Institute for Advanced and International Studies

2017 – 2018 Phoenix, Arizona

- Attended an American high school during junior year and played on the varsity basketball team
- Final GPA: 4.0/4.0

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# EXTRA CURRICULAR ACTIVITIES

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- Basketball Player: Italian "Serie C" and "Serie D" (semi-professional)
- Playing the Piano (Conservatory Program)
- Sailing (Boat License Holder)