

ANDREA BELLI CONTARINI

@ andreabcontarini@gmail.com +39 3342811052
in <https://www.linkedin.com/in/andreabcontarini/>
🔗 <https://github.com/andreabcontarini> 🔗 <https://andreabcontarini.netlify.app/>



SKILLS

- **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

- *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

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.

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

Internship and Research Thesis: Physics

Université de Genève

Feb – Jul 2025 Geneva, Switzerland

- Thesis: *Wind-Wave Interaction and Reconstruction of the Multidimensional Wave Spectrum*.
- Machine Learning Workshop at CERN: ML techniques applied to high-energy physics ([certificate](#)).

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*.

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)

High School Diploma

Liceo Scientifico J.F. Kennedy

2014 – 2019 Rome, Italy

- Final grade: 100/100

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

EXTRA CURRICULAR ACTIVITIES

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