

# ANDREA BELLI CONTARINI

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## SKILLS

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

## WORK EXPERIENCE

### Co-Founder & AI Solutions Architect

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

📅 2024 – Present

- Founded an AI automation agency focused on business process optimization.
- Designed and deployed AI agents for lead generation, email automation, document analysis and creation, idea generation (e.g., for product design), newsletter workflows, and chatbot-integrated websites.
- Specialized in no-code/low-code platforms: *Make*, *n8n*, and *Voiceflow*.

### Data Analyst (Internship)

**SAS (Statistical Analysis System) Institute** – <https://www.sas.com/>

📅 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.

## RESEARCH PROJECTS

- **Visual Tracking & Collision Detection (Computer Vision)** *Tracking and collision recognition in spinning top simulations using Kalman Filters and custom dataset.* Publication expected by end of 2025.
- **Osteoporosis Classification (Medical Imaging)** *Deep learning for osteoporosis detection from MRI scans, focusing on classification accuracy and diagnostic reliability.* Publication expected by end of 2025.
- **Lung CT Scan Segmentation (Medical Imaging)** *Developed a U-Net-based model for semantic segmentation of COVID-affected lung tissues (normal, GGO, consolidation).*
- **Jet Flavor Tagging at LHC (High-Energy Physics)** *Binary classification of bottom-quark jets vs. light/charm jets using FFNN and LSTM architectures.*

# 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* (Supervisors: Kasparian, Brunetti, Siani). Developing a software for controlling two cameras and record waves in order to reconstruct their 3D profile through WASS algorithm.

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## Master of Science, Physics (Computational Physics)

Sapienza University of Rome

Sep 2023 – Sep 2025

Rome, Italy

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

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## Bachelor of Science, Physics

Sapienza University of Rome

2019 – 2022

Rome, Italy

- Final mark: 107/110 (GPA: 27/30)
- 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