Andrea Russo Ph.D
CURRICULUM VITAE ET STUDIORUM

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Profile

AI and data analysis scientist with experience in AI and translating complex data into actionable insights. Background in business projects and public-sector–related initiatives, with a focus on technology-driven process improvement and collaborative, results-oriented work.

Education

PhD in Complex Systems for Physical, Socio-economic and Life Sciences Sept 2023
University of Catania – Dpt. of Physic and Astronomy with *Doctor Europaeus* title.

Master Degree in Management of Innovation Technology at IAE Grenoble (FR) April 2016
Working and studying on Innovation management and project management.
Theses score 18/20 with the note "Assez bien/Very good" (30L/30L).

Bachelor degree in Sociology at Paul Valery III Montpellier (FR) May 2014
Studying and focusing on social-technological dynamics and social-technological changes.

Technical Skills and Programming Languages

- **Programming Languages and Tools**: Proficient in Python (data analysis, machine learning, web scraping) and experienced in data cleaning, preprocessing and visualization, Gephi (network analysis), RStudio (basic data visualization and statistical analysis), and Latex/Overleaf.
- **AI and NLP Expertise**: Experience in implementing NLP workflows, including text classification and linguistic data processing (BERT, BERTopic, RoBERTa, etc). Experienced in working with AI-based APIs (OpenAI, Gemini) to enhance automation, perform text generation, and analyze large datasets. Developed and published the Italian Vader Sentiment Analysis tool available for free here.
- **Web Scraping and APIs**: Skilled in using various web scraping tools and integrating APIs for data collection and analysis.
- **Publications** Full publications list available at: Andrea's scholar account
- **Languages**: Italian (Mother Tongue), French (C2), English (C2).

Academic Experiences

Postdoctoral Researcher Oct. 2024 – Oct. 2025
University of Pavia / University of Milan - ALGOFEED Project *Pavia / Milan*
Role: AI Scientist and data management/analysis.

Postdoctoral Researcher Oct. 2023 – Oct. 2024
Sorbonne University & CNRS *Paris*
Role: AI Scientist and data management/analysis.

PhD (Doctor Europaeus) in Physic of Complex System Nov. 2019 – July 2023
University of Catania *Catania*
Role: Research and creation of an AI model for human-human interaction on social networks.

Visiting PhD Student Jan. 2022 – July 2022
UCD Dublin *Dublin*

Business Experiences

- **May 2019 – Project Manager, Open Innovation Project (Alstom, A2A, ELIS).** Contributed to train maintenance innovation by developing an AI chatbot to support maintenance workers and improve operational efficiency (with Keethings). For the A2A project, worked on enhancing in-store IoT systems to collect and analyze visitor data and build customer segmentation (target clusters), in collaboration with Grottini Lab.
- **January 2019 – Project Manager, Industry 4.0 Project (Confcommercio Catania).** Produced analytical reports on 14 companies and their inter-organizational networks, with a focus on the E015 ecosystem and Big Data services.
- **November 2018 – Junior PM, Etna Hitech.** Worked on MISE POR 1.1.5 (Life Sciences) and CFMT projects, focusing on DIA diagrams and macro-processes in innovation management.
- **May 2016 – Junior Innovator, Homatron SRL.** Product innovation and planning for public and private markets using emerging technologies (Li-Fi).
- **February 2016 – Junior Innovator, Gorgy Timing.** Innovation planning for time-distribution synchronization services in robotic and medical domains; research on HRI services.
- **September 2015 – Junior Innovator, Suez Environnement.** Process innovation in waste management and development of an HRI-based robotic service for waste-cycle operations.
- **April 2015 – R&D Internship, SmartEye SRL.** Research and development of smart-city camera systems, focusing on HRI interaction and emerging user needs.

Other information

- Associate member of Italian's intelligence society (SOCINT)
- Editorial member of *DeltaSocint* Journal
- Myers-Briggs indicator: **ISTJ**
- AGILE predisposition to work
- Wechsler IQ test: 144 (2012)

Last Update 2025/10/29 – Rome

I declare that I have not received any criminal sentences.

Acconsento al trattamento dei dati ai sensi della normativa vigente in materia – Regolamento Europeo GDPR 679/2016.
I consent to the processing of my data in accordance with the legislation: European Regulation GDPR 679/2016.