Adrian Marius Ginghina

CONTATTI

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WEBSITES, PORTFOLIOS, PROFILES

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PROFILO PROFESSIONALE

Professional Profile – Data Engineering Intern

I recently wrapped up my M.Sc. in Genomic Biotechnology, and through every research project, lab rotation, and especially my Erasmus placement, I've come to realize that data is the real powerhouse of modern science. It was fascinating to see how well-organized data pipelines sped up discoveries in areas far beyond biology, and it made me understand where I could make the biggest difference.
This revelation has inspired me to take on two master's programs at the same time:
· Master course in Data Engineering – to get a solid grip on scalable architectures, cloud platforms, and ETL/ELT design
· Master course in AI Development – to learn how clean, reliable data drives strong machine-learning models My ambition is

EDUCATION

Master in Data engineering: Pyton, Numpy, Pandas, Pyplot, Scikit-learn, SQL and NoSQL, Pre-processing and Feature Engineering and Machine Learning, Data Engineering in Cloud AWS, Azure Data Factory and Data Management
ProfessionAi - Milano, Prevista nel 09/2025
Master's program structure:

Division into 11 courses with related projects.

- Programming with Python (Project: Household Expense Manager)

- Python Data Toolkit: Numpy, Pandas, Pyplot
(Project: Analysis of the Performance of the S&P500 and EuroStock Stock Indices)

- SQL (Project: Bank Customer Analysis)

- NoSQL and Non-Relational Databases (Project: Managing a Contact List with MongoDB)

- Website Scraping with Python (Project: Scraping Titles from an Online Bookstore)

- Data Preprocessing and Feature Engineering (Project: Preprocessing a Breast Cancer Detection Dataset)

- Machine Learning Fundamentals (Project: Diabetes Onset Prediction)

- Big Data (Project: Wikipedia Analysis)

- Cloud Data Engineering with AWS (An AWS E2E Pipeline for Analyze BTC and XMR)

- Cloud Data Engineering with Azure Data Factory (Project: Managing a film dataset using pipeline orchestration)

-Data Management and Security (SnowFlakes) (Project: Managing patient data in a hospital)

Master in Ai Development: Artificial Intelligence
ProfessionAi, 07/2025
- REST API for Machine Learning
- Large Language Models
- Agentic AI
- Full-Stack Web development MERN su Vercel

Master's degree: Genomic, Molecular and Industrial Biotechnology
Università degli studi di Parma - Parma, 02/2024
- Investigating the impact of enhancer distance on fetal haemoglobin gene reactivation.
- Graduation grade: 110L

Bachelor's Degree: Biotecnology
Università del Piemonte Orientale - Novara, 10/2021
Role of the epithelial-to-mesenchymal transition (EMT) in the sensitivity of

to become a data engineer who can connect my life-science expertise with cutting-edge data and AI technologies.

I'm currently on the lookout for a one-year internship where I can make an immediate impact while continuing to learn in a setting that values curiosity, scientific rigor, and interdisciplinary collaboration.

SKILLS

- Python
- Numpy
- Pandas
- Scikit-learn
- SQL
- NoSQL
- MongoDB
- Google Colab
- Data Cleaning
- PySpark
- DataBricks
- Zeppelin
- Cloud Computing
- Excel
- Data Engineering
- Feature Engineering
- Pacchetto Office
- GMP Environment

LINGUE

Italiano, Rumeno: Madrelingua

English: C1

Avanzato

Romanian: C2

Esperto

Italian: C2

Esperto

metastatic melanoma to ferroptotic cell death.

WORK EXPERIENCE

Lead Sterile Area Thermofisher - Monza
04/2024 - 05/2025

- Supervisor Lead in GMP-regulated manufacturing environments within the chemical-pharmaceutical sector.
- Production & Compliance Lead – GMP-regulated chemical-pharmaceutical environments.
- Specialized in leading cross-functional operational teams, end-to-end oversight of drug and vaccine manufacturing, and authoring GMP-critical documentation (batch records, SOPs, deviation reports).
- Proven track record in managing regulatory inspections (AIFA, EMA, FDA) and CAPA workflows.

Internship Trainee (Erasmus) Hubrecht Institute - Utrecht, NL
05/2023 - 01/2024
Research Intern – Developmental Biology & Stem Cell Research
Erasmus+ Project, International Laboratory

- **HUDEP-2 cell culture** – maintained feeder-free, erythroid differentiation time-courses, daily viability counts (Trypan Blue), cryopreservation (DMSO, liquid N_2).
- **CRISPR-Cas9 gene editing** – designed two sgRNAs against BCL11A enhancer, ribonucleoprotein delivery, indel quantification with TIDE & ICE analyses .
- **Molecular assays** – gDNA extraction (Quick-gDNA), qRT-PCR (SYBR Green, $\Delta\Delta Ct$), high-resolution melt curve validation.
- **Cloning pipeline** – PCR amplification, pJET1.2 blunt-end ligation, blue-white screening, Sanger verification.
- **Data & documentation** – electronic lab notebooks (ELN)

Intern Student at UPO CAAD Centro per le malattie autoimmuni e allergiche AOU
04/2021 - 09/2021
Thesis-oriented Internship: "Role of Epithelial-to-Mesenchymal Transition (EMT) in the Ferroptotic Sensitivity of Metastatic Melanoma"

Key molecular-biology techniques mastered

- qPCR, RT-PCR, Colony PCR
- SDS-PAGE and agarose-gel electrophoresis
- Immunohistochemistry, ELISA, Western blotting

Cell-line management and treatments

- Independently maintained and treated CHL-1, A375, A2058, G361, SK-MEL5, and WM35 melanoma lines under sterile, GMP-aligned conditions.

Hands-on experimental workflows

- Invasion assays (Transwell)
- Total RNA extraction and cDNA synthesis
- Real-time quantitative PCR (SYBR Green)
- Cell-viability assays (MTT, CellTiter-Glo)

CERTIFICATES

- Google Data Analytics Professional Certificate, 05/01/24, 05/31/24
- EF SET Certificate C1 English, 10/01/23, 10/31/23

ACHIEVEMENTS

- · M.Sc. degree awarded summa cum laude (110/110 with honors)
  · Internship in the Netherlands featuring extensive hands-on laboratory work
  · Completed an advanced English course focused on scientific communication
  · Demonstrated adaptability and collaborative skills within international academic environments

CUSTOM

Disponibile a valutare nuove sfide professionali coerenti con le mie competenze.

Adrian Marius Ginghina