# Ballabio Matteo

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## SUMMARY & EDUCATION:

I am a **master** student at **Bergamo University**, attending the second year of **Management Engineering** with a background of **Biomedical Engineering**. I would describe myself as a **determined** and **enterprising** person, capable of **operating** and **collaborating in** a team to achieve the **established objectives**.

The goal of my **academic path** is to combine the most technical skills learned during the **Biomedical degree** and the planning and controlling skills learned during the **Management degree**, in order to have a **multifaceted and multi-functional background**.

### MAJOR ACADEMIC PATH:

o **Bergamo University**                                                                                                          **Bergamo, Italy**
  Master's degree in Management Engineering                                                September 2021 – Present

o **Swiss School of Business and Management**                                               **Geneve, Switzerland**
  Micro Master's degree in Data Analytics                                                   January 2023 – June 2023

o **Bergamo University**                                                                                                          **Bergamo, Italy**
  Bachelor's degree in Biomedical Engineering – SCORE: **90/110**           September 2018 – December 2021

o **IISS "Alessandro Greppi"**                                                                         **Monticello Brianza (LC), Italy**
  High School of Human Sciences                                                                   September 2013 – June 2018

### MINOR ACADEMIC PATH:

o **Oxford University, UK – On Site**                                                                                   **Oxford, UK**
  Summer School – Machine Learning and ML for Health and Finance                    June-August 2022

o **Riga Technical University & Bergamo University - Remote**                                **Bergamo, Italy**
  Summer School – Advances in Materials for Biomedicine                                             July 2021

o **International Project Management Association (IPMA)**                                                     **Italy**
  Mini-Master "INTRODUCTORY IN PROJECT MANAGEMENT"                             March 2022 – May 2022

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## WORK CAREER HIGHLIGHTS:

- **Pwc Italy – Consulting company**                                                              **On Site | Milan, Italy**
  - *Business Data Analyst (Associate) – Fixed-Term Contract (Full-Time)*         September 2022 – Present
    - Management requirements IT projects and analysis of cost – benefit (saving hours with automation)
    - Project management skills with stakeholders' and data analytics and data visualization reports
    - Redesign process (Process Mining) with robot Process Automation team (RPA)

- **Deep Learning Italia (DLI) – AI company**                                                **Remote work | Rome, Italy**
  - *Data Scientist – Occasional Collaboration*                                             September 2022 – August 2022
  - *Training Specialist and Community Manager – Intern*
    - Management and development of ML and MLOps projects for scientific and business scope
    - Management of professors/researchers to create e-learning courses and co-management of the release of the new IT platform.

- **Fondazione Bruno Kessler (FBK) – Research Center**                                 **Remote work | Trento, Italy**
  - *Thesis Data Scientist - Intern*                                                             September 2020 – December 2021
    - Pipeline for pre-processing and segmentations of MRI images and publication Open Science dataset
    - Creation of benchmark for the development of deep learning models (3D-U-Net)
    - Creation of a Docker-App usable through GUI or CLI
  - *Junior Data Scientist - Intern*
    - Preprocessing of Magnetic Resonance Imaging (MRI) and statistical measurements to analyze them

- **Computational Life – Biomedical Company**                                           **Remote work | Bolzano, Italy**
  - *Assistant Research Engineer - Intern*                                                   February 2020 – August 2020
    - Literature review to find information about hemodynamical case studies
    - Management and development of a business work to present the peculiarities and differences of different clinical scenario simulated using their hemodynamical system (healthy case, severe mitral and severe aortic regurgitation, cardiogenic shock).

- **Speedy Pizza – Pizzeria**                     *Delivery Man* | **Cassago B.za (LC), Italy** | September 2019 – August 2020
- **Il Portico – Restaurant**                       *Restaurant Waiter* | **Monticello B.za (LC), Italy** | September 2018 – August 2019
- **Costamp Group – Manufacturing of Molds**     *CAD Technician* | **Sirone (LC), Italy** | July 2018 – September 2018
- **IRCSS E. Medea – Research Center**           *Bioimaging Junior Intern* | **Bosisio Parini (LC), Italy** | February 2018

## SKILLS, ACTIVITIES & INTERESTS:

### Analytics Skills:

- Operating systems: excellent knowledge of **Windows** and **Linux.**
- Statistical and numerical software: good knowledge and skills in **MATLAB**, **Excel**, **Minitab**, **R.**
- Programming language and Framework for deployment apps:
  - ✓ Solid knowledge of **Python** (Numpy, Pandas, Matplotlib, Scipy, Scikit-Learn, Tensorflow, Keras)
  - ✓ Good skills of **Bash pipeline and scripting** (check in the GitHub repository).
  - ✓ Basic experience: Git software, SQL languages and the main relational DBMS software: **SQL Developer**, **SQL Server**, **MySQL**, **Docker containers**.
  - ✓ RPA Software: **UiPath**
- Specific Software: bioimaging software as **ITKSNAP**, **FSL**, **ANTs, SimVascular (gui and cli)** | electronic software as Arduino | 3D Cad software as **CATIA** and **SolidWorks.**

### Management Skills:

- Most common software: **Microsoft Office package (Word, Excel, PowerPoint), LaTex.**
- Project Management Software: **MS Project**, **Jira Management**

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### Soft Skills:

- A mental attitude tuned towards **Problem-Solving**
- **Adaptability** and willing to accept new opportunities
- **Initiative** and exceptional **Teamwork**

### Extracurricular courses & Certifications:

- **"INTRODUCTORY IN PROJECT MANAGEMENT"** – PMI - May 2022
- **"Deep Learning per immagini biomediche"** – DLI - March 2022
- **"Fondamenti di Machine Learning"** – DLI - February 2022
- **"Machine Learning Crash Course with TensorFlow APIs"** – Google – October 2021
- **"Deep Learning per la Computer Vision"** – DLI - August 2021
- **"Machine Learning"** – Stanford Online – February 2021

### Language skills:

- **Italian** (speaker)
- **English** (B2)
- **French** (basic knowledge)

### Activities & Interests:

- Founder of Data3Sigma Project
- Alpinism, soccer
- Works of J.D. Salinger and W. Shakespeare
- Blood Donor (AVIS)

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## PORTFOLIO PROJECTS:

- Computer Vision project (contributor publication based on 3D-U-Net MRI segmentation) [repository: /BSc-Thesis-Workflow]
- Computer Vision project (multiclass classification – CNN Ocular Disease Recognition) [repository: / MLODC-Transfer_Learning]
- Time Series project (forecasting time series using methods of Machine Learning and ARIMA) [repository:/ EEFU-ML_TimeSeries]
- Machine Learning project (machine learning models – Cardiovascular and other datasets) [repository: /DataScience_ML_DL_Project]
- Supply Chain Management project (optimization models to simulate a Supply's scenario) [repository: /SCM-Network-Optimization-2.0]

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## International Publications and Datasets published:

- Amorosino, G., Peruzzo, D., Olivetti, E., & Avesani, P. (2021). "DBB Distorted Brain Benchmark" Brainlife.io. https://doi.org/10.25663/BRAINLIFE.PUB.24 (contributor) - Dataset

- M. Testi, M. Ballabio, E. Frontoni, G. Iannello, S. Moccia, P. Soda, G. Vessio. (June 2022) "MLOps: "A Taxonomy and a Methodology" – IEEE *Access* - 10.1109/ACCESS.2022.3181730

- Gabriele Amorosino, Denis Peruzzo, "DBB - A Distorted Brain Benchmark for Automatic Tissue Segmentation in Paediatric Patients" - NeuroImage Journal (August 2022) (contributor) - https://doi.org/10.1016/j.neuroimage.2022.119486