

Matteo Morella

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Education

- 2023 – **Master's Degree in Scienze Statistiche e Attuariali**, *Università degli studi del Sannio*, Benevento,
- 2020 – **Bachelor's Degree in Scienze Statistiche e Attuariale**, *Università degli studi del Sannio*, Benevento, 105/110
- 19/09/2023
- 2015 – 2020 **High school leaving qualification Liceo Scientifico**, *Istituto superiore Aeclanum*, Mirabella Eclano, 93/100

Projects

- 2025 **Expected Goals (xG) Model Selection in Football**
Developed and compared multiple models for estimating Expected Goals (xG) using logistic regression, LDA, bagging, random forest with hyperparameter tuning, and a dense feedforward neural network. Included full preprocessing pipelines, custom evaluation metrics (ROC, F1-score, Brier score), and explainability analysis with SHAP.
Cleaned dataset published on [Kaggle](#). Full study released on [Zenodo](#). [GitHub repository](#).
- 2025 – **Hybrid CNN Architecture for Skin Cancer Classification**
Designing and training a hybrid deep learning model combining Convolutional Neural Networks (CNNs) for image processing with dense layers for patient metadata. The project aims to accurately classify skin lesions (benign vs malignant) using multimodal data. Work in progress. Planned publication and code release on GitHub.
- ongoing

Experience

- 2025 **Student Tutor**, *Università degli studi del Sannio*
Provided academic support as university tutor, helping students recover the coursework and improving their understanding of key subjects. Conducted remedial lessons and offered mentorship to help students achieve their academic goals. In addition, participated in university outreach programs, presenting academic opportunities to high school students and guiding them through their transition to higher education.
- Jan 2025 **Participant in the Apple Foundation Program**
Completed a 100-hour intensive training program focused on app development using Swift and Xcode, with a strong emphasis on design thinking and user experience. Worked in a multidisciplinary team to conceptualize, design, and develop a fully functional mobile application. Gained hands-on experience in coding, UI/UX design, and project management, following Apple's guidelines and best practices.
- 2023 **Volunteer for the Organization of ARES event**
Volunteered for the 18th International Conference on Availability, Reliability and Security (ARES 2023), held from August 29 to September 1, 2023, in Benevento, Italy. This conference, focused on cybersecurity, was co-located with the International IFIP Cross Domain Conference for Machine Learning & Knowledge Extraction (CD-MAKE).

Languages

Italian ★★★★★ *Mother tongue*
English ★★★★★ *IELTS C1*
Portuguese ★ *Basic*

Soft Skills

- **Teamwork and Collaboration**
Proven ability to work effectively in teams, gained through academic projects and volunteer experiences.
- **Problem Solving**
Developed strong analytical and problem-solving skills, particularly in statistical and data analysis contexts.
- **Adaptability**
Quick to learn new tools and methodologies, with a versatile approach to adapting to different work teams and environments.

Computer skills

R ★★★★★ *Highly Skilled*
SQL ★★★★★ *Skilled*
Python ★★★★★ *Competent*
Swift ★★★★★ *Competent*
Excel ★★★★★ *Competent*
SPSS ★★★★★ *Competent*
GAMS ★★★★★ *Competent*

LaTeX ★★★★★ *Highly Skilled*
MarkDown ★★★★★ *Skilled*

Extra

- 2024 – 2025 **Active Member at CUT – Centro Universitario Teatrale**
Participated in theatrical training workshops, including voice and diction sessions, stage movement, and performance techniques. The experience culminated in a final stage performance in which I performed as an actor. Developed communication, expressive, and teamwork skills through continuous engagement in a collaborative creative environment.
- 24/04/2025 **Organizer of the seminar "Statistical Consulting and The Art of Noise Reduction"**
Planned and organized a seminar featuring Pasquale Cirillo, Professor at ZHAW Zurich University of Applied Sciences. The event focused on the practical challenges and methodologies of statistical consulting, highlighting techniques for managing uncertainty and reducing noise in real-world data analysis.
- 02/04/2025 **Organizer of the seminar "Music in the Air: Feel the Beat of Intellectual Property"**
Coordinated and organized a seminar on intellectual property in the music industry, with distinguished guests including Roberto Recchioni and Daniela Riccardi.
- 17/05/2023 **Organizer of the seminar "La Statistica nel Basket"**
Planned and managed the seminar featuring Francesco Olivo, data analyst at Virtus Bologna, discussing the role of statistics in basketball.

2023 **Treasurer of a Student Association.**

Served as Treasurer of EtaBetaGamma at Unisannio, responsible for managing the association's budget and overseeing financial transactions. Additionally, I coordinated and managed the organization of various student events, including workshops, seminars, and social gatherings, ensuring successful execution and participation.