

Matteo Romilio Pasqual

📍 Milan (IT) 📩 matteoromilio.pasqual@mail.polimi.it 💬 Matteo Pasqual

"In the middle of difficulty lies opportunity." – Albert Einstein

🎓 Education

Politecnico di Milano

M.Sc. in Computer Science and Engineering - Artificial intelligence

Sep 2024 – Today

Politecnico di Milano

B.Sc. in Computer Science and Engineering (polimi.it ↗)

Sep 2021 – Jul 2024

Grade: 109/110

Liceo Scientifico "Leonardo da Vinci"

Diploma di Liceo Scientifico - Scienze Applicate (liceogallarate.edu.it ↗)

Sep 2016 – Jul 2021

Grade: 96/100

✉️ Projects and Research

Multi-agent System Leonardo Drone Contest 2025

L.D.C. 2025

- Participated in a national robotics competition ([Drone Contest](#) ↗)
- Designed a multi-agent system for collaborative navigation and dynamic task execution
- Developed decentralized decision-making algorithms and agents communication protocols
- Worked on multiple real-world unknown indoor scenarios
- Improved teamwork and problem-solving

K.A.N.s lecture

K.A.N.s

- Presented Kolmogorov-Arnold Networks in a lecture-style format
- Introduced key theory, applications and comparisons with neural networks
- Evaluated 30/30 and selected for future Numerical Analysis for Machine Learning lectures at PoliMi
- Created hands-on material and demonstrations ([GitHub](#) ↗)

Non-Intrusive Monitoring of Daily Habits: A CGR-Based Approach

Research

- Developed a framework for daily habit monitoring using Chaos Game Representation (CGR)
- Categorized behaviours and detected anomalies in particular in elderly daily routines.
- Accepted at UCAMI 2025 – 17th International Conference on Ambient Intelligence (Prato, Italy)

💼 Experience

University Multichanche Tutor

Milano, IT

Politecnico di Milano

Sep 2025 – Mar 2026

- Tutored university students with learning difficulties
- Provided personalized academic support and study assistance

University Peer-to-peer Tutor

Milano, IT

Politecnico di Milano

Sep 2022 – Jul 2024

- Tutored classmates with the sponsorship of University
- Skills acquired: work management, basic teaching skills

🌐 Languages

- **Italian:** native

- **English:** C1

🔧 Skills

- **Programming & Software Dev.:** Python, C/C++, Java
- **Databases Technologies:** SQL, MongoDB, Spark, Neo4j, Zilliz-Milvus
- **OS & Middleware:** ROS, ROS2, Linux, Docker and VMs
- **Other Technologies:** Matlab, VHDL/Vivado

🏆 Awards

Best Freshmen Award: top 5% freshmen of PoliMi

2023

👉 Volunteering

Volunteer at Oratorio di Albizzate
Albizzate

Set 2016 - Aug 2021