

Matteo Romilio Pasqual

📍 Milan (IT) ✉ matteoromilio.pasqual@mail.polimi.it in Matteo Pasqual

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

🎓 Education

Politecnico di Milano	<i>Sep 2024 – Today</i>
M.Sc. in Computer Science and Engineering - Artificial intelligence	
Politecnico di Milano	<i>Sep 2021 – Jul 2024</i>
B.Sc. in Computer Science and Engineering (polimi.it ↗)	Grade: 109/110
Liceo Scientifico "Leonardo da Vinci"	<i>Sep 2016 – Jul 2021</i>
Diploma di Liceo Scientifico - Scienze Applicate (liceogallarate.edu.it ↗)	Grade: 96/100

🔗 Projects and Research

Multi-agent System Leonardo Drone Contest 2025	<i>L.D.C. 2025</i>
<ul style="list-style-type: none">◦ 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	<i>K.A.N.s</i>
<ul style="list-style-type: none">◦ 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	<i>Research</i>
<ul style="list-style-type: none">◦ 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 Multichance Tutor	<i>Milano, IT</i>
<i>Politecnico di Milano</i>	<i>Sep 2025 – Mar 2026</i>
<ul style="list-style-type: none">◦ Tutored university students with learning difficulties◦ Provided personalized academic support and study assistance	
University Peer-to-peer Tutor	<i>Milano, IT</i>
<i>Politecnico di Milano</i>	<i>Sep 2022 – Jul 2024</i>
<ul style="list-style-type: none">◦ Tutored classmates with the sponsorship of Univeristy◦ Skills acquired: work management, basic teaching skills	

🌐 Languages

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- **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 Set 2016 - Aug 2021
Albizzate