

Matteo Boglioni

✉ boglioni.matteo@gmail.com | 🏠 ilboglions.github.io | 🔗 ilboglions | in matteoboglioni

Interests	Privacy and Security in Machine Learning, LLMs, Deep Learning.	
Education	Swiss Federal Institute of Technology in Zurich (ETH Zürich)	Sep 2023 - Sep 2025
	<i>MSc in Computer Science</i> <ul style="list-style-type: none">• Core Areas: Machine Intelligence, Data Management Systems.	
	University of Wisconsin-Madison	Jan 2023 - Jun 2023
	<i>Computer Engineering Exchange Student – GPA: 4.0/4.0</i> <ul style="list-style-type: none">• Courses: Artificial Neural Networks, Introduction to Cryptography, Introduction to Robotics.	
	Politecnico di Milano	Sep 2020 - Jul 2023
	<i>BSc in Computer Engineering – Final Grade: 110/110 with honors - GPA: 29.41/30</i> <ul style="list-style-type: none">• Participated for a year at NECSTCamp: a research program for students.	
Research Experience	Carnegie Mellon University	Mar 2025 - Sep 2025
	<i>Master's Thesis: Advancing Efficient Differential Privacy Auditing</i> Advisor: Prof. Zhiwei Steven Wu, Prof. Florian Tramèr	
	Swiss Federal Institute of Technology in Zurich (ETH Zürich)	Sep 2024 - Feb 2025
	<i>Semester Project: "Membership Inference over Diffusion-models-based Synthetic Tabular Data"</i> Advisors: Prof. Florian Tramèr, Jie Zhang, and Michael Aerni <ul style="list-style-type: none">• Part of SaTML MIDST Challenge.	
Publications	M. Boglioni, A. Sgobbi, G. Tavernini, F. Rita, M. Mosbach, T. Pimentel, Do Generalisation Results Generalise? , Submitted to <i>Empirical Methods in Natural Language Processing (EMNLP)</i> , 2025 T. Liu, M. Boglioni, Y. Fu, S. Hu, P. Thaker and S. Wu, Enhancing One-run Privacy Auditing with Quantile Regression-Based Membership Inference , Accepted at <i>Theory and Practice of Differential Privacy Workshop</i> , 2025	
Teaching	"Peer-to-Peer Tutoring" at Politecnico di Milano ↗	2021 - 2023
	<ul style="list-style-type: none">• Held for multiple semesters for approximately 10h/week tutoring sessions for Fundamentals of Computer Science, Linear Algebra, Basic Circuit Theory, Probability and Statistics.	
	Robotics Class	Oct 2019 - Mar 2020
	<ul style="list-style-type: none">• Taught a robotics class during my senior year of High School for other students starting from the first lines of code up to basic IoT projects.	
Honors	Politecnico di Milano 2020. Best Freshman Award	
Leadership Experience	NaoChallenge 2019 ↗	Spring 2019
	<ul style="list-style-type: none">• Winning of Italian National Championship• The team designed and created a prototype of a functioning communication system for locked-in syndrome patients making them able to interact through a humanoid robot.	
	Scout Experience	Oct 2009 - Current
	<ul style="list-style-type: none">• Up to 2022 as Mentee, now as Educator• Team work and problem-solving.	