

# Tommaso Calò

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## EDUCATION BACKGROUND

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<b>Politecnico di Torino (PoliTo)</b> <i>National Ph.D. program in Artificial Intelligence.</i> My research intersects Human-Computer Interaction (HCI) and Artificial Intelligence (AI), focusing on UI modeling and sketch-to-code translation. Since 2022, I have authored 7 peer-reviewed papers that have accumulated 36 citations.	<b>Turin, Italy</b> Nov. 2021-Nov. 2024
<b>Politecnico di Torino (PoliTo)</b> <i>M. SC, Data Science and Engineering.</i> Final Grade: 105/110 (Completed during the COVID-19 pandemic)	<b>Turin, Italy</b> Sept. 2019-Oct. 2021
<b>Politecnico di Torino (PoliTo)</b> <i>B. SC, Engineer Management</i>	<b>Turin, Italy</b> Sept. 2015-Mar. 2019
<b>Liceo Ludovico Ariosto</b> <i>High School, Scientific Diploma</i>	<b>Ferrara, Italy</b> Sept. 2010-Aug. 2015

## PROFESSIONAL EXPERIENCE

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<b>Georgia Institute of technology</b> <i>Visiting Scholar</i> Conducted research on human-like learning in AI systems under the supervision of Christopher MacLellan, resulting in one paper accepted at L@S2024 and another under submission.	<b>Atlanta, USA</b> Feb. 2024 - July 2024
<b>Fondazione ITS Mobilità Sostenibile, Aerospazio/Meccatronica Piemonte</b> <i>Teacher</i> Instructed a class of 30 students in Python programming with a focus on aerospace and mechatronics applications, resulting in an average final grade of 85% and a 90% course completion rate.	<b>Turin, Italy</b> Sep. 2023 - Dec. 2023
<b>Politecnico di Torino</b> <i>Teaching Assistant - Computer Vision</i> Supported 12 hands-on labs and provided instructional guidance to 80 students in Computer Vision, focusing on algorithm implementation and machine learning integration.	<b>Turin, Italy</b> Feb. 2023 - July 2023
<b>Politecnico di Torino</b> <i>Teaching Assistant - Human Computer Interaction</i> Led Human-AI interaction projects, guiding 50 students in developing and evaluating AI-driven user interfaces.	<b>Turin, Italy</b> Sept. 2022 - Feb. 2023
<b>Magneti &amp; Marelli (MM), R&amp;D Center</b> <i>Internship - Value Analyst</i> Identified inefficiencies and implemented process optimizations in software design, achieving a 15% reduction in resource waste.	<b>Cluj-Napoca, Romania</b> Aug. 2018 - Nov. 2018

## GENERAL EXPERIENCE

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<b>Students Team: Squadra Corse Polito</b> <i>Head of Management</i> In the first year, developed the electric vehicle prototype's business plan, achieving a 1st-place finish in Varano (Italy) and top-three placements in Prague and Barcelona. Promoted to Head of Management in the second year, secured a 20% increase in sponsor funding, revised the business plan, and boosted social media reach by 35%, resulting in a 15% rise in overall team visibility and engagement.	<b>Turin, Italy</b> Sept. 2018- Sept. 2020
<b>Exchange program in Hunter's Hill High School</b> <i>Exchange Student</i> Completed a semester abroad focused on advanced mathematics, ranking in the top 5% of the class and qualifying for a higher-level course, while engaging with students from over 20 countries and adapting to three new languages, significantly broadening global perspectives.	<b>Sydney, NSW, Australia</b> Jan. 2014- July 2014

## CERTIFICATES AND LICENSES

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- TOEFL IBT: 98/120 (C1 equivalent)

## HONORS & AWARDS

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- Top 10 finish in High School Mathematics Competition; advanced to provincial phase *April 2015*
- First place in FSAE Italy (Varano) Electric Category *July 2019*
- Winner of PwC Cybersecurity Challenge (PoliTo) *Mar. 2020*
- Three-year PhD scholarship for merits *Nov. 2021*
- Third place in Winter Sailing Championship Liguria di Ponente *Dec. 2024*

## PUBLICATIONS

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- Calo', Tommaso; De Russis, Luigi. 2022. **Style-Aware Sketch-to-Code Conversion for the Web**. In Companion of the 2022 ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS '22 Companion). Association for Computing Machinery, New York, NY, USA, 44–47. <https://doi.org/10.1145/3531706.3536462>
- Fior, J., Cagliero, L., Calò, T. 2022. **Generating Comparative Explanations of Financial Time Series**. In: Chiusano, S., Cerquitelli, T., Wrembel, R. (eds) Advances in Databases and Information Systems. ADBIS 2022. Lecture Notes in Computer Science, vol 13389. Springer, Cham. [https://doi.org/10.1007/978-3-031-15740-0\\_10](https://doi.org/10.1007/978-3-031-15740-0_10)
- Calo', Tommaso; De Russis, Luigi. 2022. **Creating Dynamic Prototypes from Web Page Sketches**. In Proceedings of the 1st ACM SIGPLAN International Workshop on Programming Abstractions and Interactive Notations, Tools, and Environments (PAINT 2022). Association for Computing Machinery, New York, NY, USA, 20–25. <https://doi.org/10.1145/3563836.3568724>.
- Calo', Tommaso; De Russis, Luigi. 2023. **Leveraging Large Language Models for End User Website Generation**. In End-User Development (Proceedings of the 9th International Symposium on End-User Development, Cagliari, Italy, June 6-8, 2023). Springer.
- Calo', Tommaso; De Russis, Luigi. 2023. **Towards A Visual Programming Tool to Create Deep Learning Models**. In Companion Proceedings of the 2023 ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS '23 Companion). Association for Computing Machinery, New York, NY, USA, 38–44. <https://doi.org/10.1145/3596454.3597181>.
- Calo', Tommaso; Maclellan, Christopher. 2024. **Towards Educator-Driven Tutor Authoring: Generative AI Approaches for Creating Intelligent Tutor Interfaces**. In Proceedings of the Eleventh ACM Conference on Learning @ Scale (L@S '24), Atlanta, GA, USA. Association for Computing Machinery, New York, NY, USA, 305–309. <https://doi.org/10.1145/3657604.3664694>.
- Calo', Tommaso; De Russis, Luigi. 2024. **Enhancing Smart Home Interaction through Multimodal Command Disambiguation**. In Personal and Ubiquitous Computing, Springer, 1–16. <https://doi.org/10.1007/s00779-024-01827-3>.
- Monge Roffarello, Alberto; Calo', Tommaso; Scibetta, Luca; De Russis, Luigi. 2025. **Investigating How Computer Science Researchers Design Their Co-Writing Experiences With AI**. Accepted at CHI 2025.
- Calo', Tommaso; De Russis, Luigi. 2025. **DeepFlow: A Flow-Based Visual Programming Tool for Deep Learning Development**. Accepted at IUI 2025.
- Calo', Tommaso; De Russis, Luigi. 2025. **MorphGUI: Real-time Natural Language Interface Customization with Large Language Models**. Submitted at IJHCS.
- Calo', Tommaso; De Russis, Luigi. 2025. **Advancing Code Generation from Visual Designs through Transformer-Based Architectures and Specialized Datasets**. Under Submission at EICS 2025.
- Calo', Tommaso; Maclellan, Christopher. 2025. **AI-Assisted Interface Design for Intelligent Tutoring Systems**. Under Submission at L@S 2025.
- Calo', Tommaso; Francesca, Russo; De Russis, Luigi. 2025. **GUI Representation Learning for Downstream Real-World Applications**. Under Submission at CHI LBR.