

Tommaso Calò

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EDUCATION BACKGROUND

Politecnico di Torino (PoliTo)

National Ph.D. program in Artificial Intelligence.

My research intersects HCI and AI. I have been involved in projects that focus on UI modeling and sketch-to-code translation.

Turin, Italy

Nov. 2021-Nov. 2024

Politecnico di Torino (PoliTo)

M. SC, Data Science and Engineering.

Turin, Italy

Sept. 2019-Oct. 2021

Politecnico di Torino (PoliTo)

B. SC, Engineer Management

Turin, Italy

Sept. 2015-Mar. 2019

Liceo Ludovico Ariosto

High School, Scientific Diploma

Ferrara, Italy

Sept. 2010-Aug. 2015

PROFESSIONAL EXPERIENCE

Georgia Institute of technology

Visiting Scholar

Visting period under the supervision of Prof Chris Mac Lellan, I am researching on autonomous agent interfaces and human-like learning in AI systems

Atlanta, USA

Feb. 2024 - July 2024

Fondazione ITS Mobilità Sostenibile, Aerospazio/Meccatronica Piemonte

Teacher

Taught Python programming, focusing on applications in aerospace and mechatronics, and developed students' skills in software development for sustainable technologies.

Turin, Italy

Sept. 2023 - Dec. 2023

Politecnico di Torino

Teaching Assistant - Computer Vision

Facilitated hands-on labs and provided instructional support in Computer Vision, emphasizing algorithm implementation and machine learning integration.

Turin, Italy

Feb. 2023 - July 2023

Politecnico di Torino

Teaching Assistant - Human Computer Interaction

Led Human-AI interaction projects, focusing on advancing students' skills in designing and evaluating AI-driven user interfaces for optimal usability and effectiveness.

Turin, Italy

Sept. 2022 - Feb. 2023

Magneti & Marelli (MM), R&D Center

Internship - Value Analyst

Served as a Business Analyst, identifying inefficiencies and implementing optimizations in the software design process. My strategies led to a significant reduction in waste.

Cluj-Napoca, Romania

Aug. 2018 - Nov. 2018

GENERAL EXPERIENCE

Students Team: Squadra Corse Polito

Head of Management

In my first year, collaborated on a Business Plan for an electric vehicle prototype, leading to top finishes at European FSAE races in Varano, Prague, and Barcelona, and a first-place win at the Italian event. Promoted to Head of the Management Division in the second year, supervising sponsor relations, updating the Business Plan, and managing social media efforts, enhancing team visibility and engagement.

Turin, Italy

Sept. 2018- Sept. 2020

Exchange program in Hunter's Hill High School

Exchange Student

Studied abroad for a semester, gaining exposure to diverse cultures, languages, and lifestyles, which emphasized the value of embracing new experiences and broadening personal perspectives.

Sydney, NSW, Australia

Jan. 2014- July 2014

CERTIFICATES AND LICENSES

- TOEFL IBT: 98/120 (C1 equivalent)

HONORS & AWARDS

- FSAE Italy Championship 2019 *July 2019*
Formula SAE is an international student design competition that engages engineering departments from universities across the globe. It is organized by SAE International, formerly known as the Society of Automotive Engineers.
- Three years PhD scholarship for merits. *Nov. 2021*

PUBLICATIONS

- Tommaso Calò and Luigi De Russis. 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
- Calò, 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>.
- Calò, 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.
- Calò, 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>.
- Calò, Tommaso; Maclellan, Christopher. 2024. **Towards Educator-Driven Tutor Authoring: Generative AI Approaches for Creating Intelligent Tutor Interfaces.** accepted at ACM Learning@Scale2024.
- Calò, Tommaso; De Russis, Luigi. 2024. **Enhancing Smart Home Interaction through Multimodal Command Disambiguation.** accepted at ACM Personal and Ubiquitous Computing