Ennio Visconti

curriculum vitae

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Education

2020–now **PhD candidate**, *Logical Methods in Computer Science at TU Wien*, Vienna, Austria
Details:
- Thesis on runtime verification of spatio-temporal models, where formal logic-based techniques have been combined with statistical/machine-learning techniques to develop efficient real-time monitoring.
- Served as the main maintainer of `Moonlight` (a Java-based signal monitor) and main developer of `Webmonitor` (a Kotlin-based webpage monitor, presented at a flag-ship Software Engineering conference).
- Supervised a bachelor and a master student throughout their thesis.
- Delivered several seminars and exercises for the Cyber-physical systems course

2012–2019 **Bachelor and Master of Science**, *Computer Science & Engineering - Politecnico di Milano*, Milano, Italy
Details:
- Presented a new methodology to guarantee the correct synchronization of software models in the building industry. Main developer of Topocity (a open-source Haskell tool) to achieve such sync.

2011 **Summer School**, *Computer Programming (C++ basics) at NYU*, New York, USA

2007–2012 **High school**, *Classical studies at Liceo Classico M. Galdi*, Cava de' Tirreni, Italy

Experience

Vocational

2020–now **Co-Founder & CTO**, *fyblo*, Milano (Remote)
A Blockchain-based platform that for financial institutions. *fyblo.com*
- Coordinating with the business, product and legal areas to align the development with the company goals.
- In charge of a project selected by the Bank of Italy together with 4 other highly-innovative financial services.
- Head of 3 senior engineers, coordinating the development of the smart contracts in Solidity, the APIs in Typescript, the frontend in Vue.js/Nuxt, and the AWS infrastructure, managed via Terraform and Github pipelines.

2018 **Fullstack developer**, *Callmespa*, Milano
Web platform developer: *callmespa.com*
- Main developer for the web ordering platform, developed in PHP that was integrated in a Wordpress platform.

2015–2017 **IT Manager**, *Svoltastudenti*, Milano
Manager of IT services for Svoltastudenti, Politecnico di Milano's students' union. More on *svoltastudenti.it*
- Head of six volunteering Software Engineering students, in charge of the IT services of the association (managed web services contracts, devices provisioning and migrating services from Google to Microsoft Office 365).

2014–2015 **Web app developer**, *Fiat Chrysler Automobiles*, Torino
Development with a teammate of a survey platform for internal usage (developed in C#/.NET).
- Winner of student competition by *university2business.it*;
- In charge of the frontend development (JavaScript) and of the authentication service (in C#) based on Kerberos to integrate in company's Microsoft SSO.

Miscellaneous

2018-2019 **National Students' Council member**, *Minister of University, Instruction and Research (Italy)*
One of the 30 Italian students who constitute the students advisory board of the minister.

2017 **Content Editor**, *Politecnico di Milano & EIT Digital*, Editor of Recommender Systems MOOC
Setup of a synthetic reader using Watson by IBM Bluemix.

2015–2017 **Student representative**, *Politecnico di Milano*, Industrial & Information Engineering School
Also, student representative in the committee against disparities and inequalities in general.

Computer skills

Programming Haskell(very good), Java(very good), Kotlin(very good), C# + ASP.NET(good), Python(very good), PHP(good), Javascript/Typescript(good), Scheme(basic), C/C++(basic), Erlang(basic).

Database Good experience in design and development of databases with MySQL and Microsoft SQL Server.

Systems Experience in Windows OS, MacOS and Linux (i.e. Ubuntu, Ubuntu Server, CentOS).

Miscellaneous Good knowledge of Microsoft Office's suite and Adobe Creative Cloud tools. Advanced knowledge of Git and LaTeX. Basic knowledge of KNIME for data mining & analytics. Proficient in web frontend technologies (HTML, XML, CSS).

Languages

Italian	Native speaker	
English	Fluent - C1	*Cambridge certification - CAE*
German	Entry level - A2.1	*Goethe Institut certification for A1*

Research

Visits

2023–2024 **Research Visitor**, *University of Trieste*, Trieste, Italy
Data Science and Scientific Computing unit, department of Mathematics and Geosciences.

2022 **Research Intern**, *INRIA*, Grenoble, France
Runtime Verification intern at the Programming Languages laboratory.

2018-2019 **Research Intern**, *National Institute of Informatics*, Tokyo, Japan
Software Engineering intern at the Programming Languages laboratory.

Publications

2019-2023 **Publications**, *Author of several scientific papers*, in the topics: software engineering, software modeling, web development, runtime verification, spatio-temporal logic, real-time monitoring, statistical model checking

- Visconti, E., Bartocci, E., Falcone, Y., Nenzi, L. (2024). Adaptable Configuration of Decentralized Monitors. In: Castiglioni, V., Francalanza, A. (eds) Formal Techniques for Distributed Objects, Components, and Systems. FORTE 2024. Lecture Notes in Computer Science, vol 14678. Springer, Cham. https://doi.org/10.1007/978-3-031-62645-6_11
- Ennio Visconti, Christos Tsigkanos, Laura Nenzi, "WebMonitor: Verification of Web User Interfaces," in 37th IEEE/ACM International Conference on Automated Software Engineering, ASE 2022, Rochester, MI, USA, October 10-14, 2022, 2022, pp. 170:1–170:4.
- Ennio Visconti, et al. "Model-driven engineering city spaces via bidirectional model transformations," in Softw. Syst. Model., vol. 20, no. 6, pp. 2003–2022, 2021.
- Ennio Visconti, et al, "Online monitoring of spatio-temporal properties for imprecise signals," in MEMOCODE '21: 19th ACM-IEEE International Conference on Formal Methods and Models for System Design, Virtual Event, China, November 20 - 22, 2021, 2021, pp. 78–88.
- Laura Vana, et al. "Posterior predictive model assessment using formal methods in a spatio-temporal mode," in CoRR, vol. abs/2110.01360, 2021.
- Laura Nenzi, et al, "Monitoring Spatio-Temporal Properties (Invited Tutorial)," in Runtime Verification - 20th International Conference, RV 2020, Los Angeles, CA, USA, October 6-9, 2020, Proceedings, 2020, pp. 21–46.
- Ennio Visconti, et al, "Model-Driven Design of City Spaces via Bidirectional Transformations," in 22nd ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, MODELS 2019, Munich, Germany, September 15-20, 2019, 2019, pp. 45–55.