



Federico Turrin

Curriculum Vitae

Personal Information

Birthdate 23th June, 1994
Nationality Italian
Cell Phone +39 3401846624
Email turrin@math.unipd.it
Office Office #711, 7th floor. Torre Archimede, via Trieste 63, 35121 Padova, Italy
Residence Via Lozzetta 26, Cordenons, 33084, Pordenone, Italy
Linkedin www.linkedin.com/in/federico-turrin
Website <https://www.math.unipd.it/~turrin>

Education

October 2019 **Currently attending Ph.D. programme**, *University of Padova*,
Ph.D school: *Brain, Mind & Computer Science (BMCS)*,
Supervisor: Prof. Mauro Conti.
Co-Supervisor: Prof. Luciano Gamberini.

2016–2019 **Master's Degree in Computer Engineering**, *University of Padua*,
Thesis Title: Novel Methods for Cyber-Physical Security Analysis on Operational Technology Systems,
Supervisor: Prof. Mauro Conti. **Co-Supervisor:** Eng. Giuseppe Bernieri, PhD.

2017 **Erasmus**, at *Grenoble Institute of Technology, France*,
He attended the Master programme in *Cybersecurity*.

2013–2016 **Bachelor Degree in Information Engineering**, *University of Padua*,
Thesis Title: Algorithms for computing the transitive closure of directed graphs, in Italian,
Supervisor: Prof. Andrea Alberto Pietracaprina.

2008–2013 **High School Certificate**, *Liceo Scientifico M. Grigoletti, Pordenone*.
Thesis title: Computer Crime, in Italian. In collaboration with Postal Police (Inspector A. De Maio)

Technical skills

Language Italian (Native), English (Advanced level), French (Basic level), Spanish (Basic level)
Programming C/C++, Python, Java, Matlab, SQL
Others JavaScript, HTML, LATEX, PARI/GP, Apache Spark, IBM ILOG CPLEX
Tools Git, Microsoft Office, AutoCAD, Android Studio

Operative Systems Linux, Windows, MacOS
Driving licenses Class B, 2012

Teaching Activities

- 2020 Organizer for CyberChallenge 2020, University of Padova.
- 2019 Teaching assistant for the course *Database*, bachelor's degree in Computer Science, University of Padova.

Awards

- 2020 His paper *ALISI: A Lightweight Identification System based on Iroha* received a **travel grant award** from SAC2020 Conference, Brno.
- 2019 His research project won the **Research Originality and Social Impact Award 2019** at *Brains Meet Digital Enterprises*, Padua 2019, together with a financial contribution.
- 2019 His paper *KingFisher: an Industrial Security Framework based on Variational Autoencoders* received a **travel grant award** from SenSys-ML 2019 Workshop, New York.

Publications

- 2019 Giuseppe Bernieri, Mauro Conti, and **Federico Turrin**. 2019. Evaluation of Machine Learning Algorithms for Anomaly Detection in Industrial Networks. In 2019 IEEE International Symposium on Measurements & Networking (M&N). IEEE, 1–6.
- 2019 Giuseppe Bernieri, Mauro Conti, and **Federico Turrin**. 2019. *KingFisher: an Industrial Security Framework based on Variational Autoencoders*. In Proceedings of the 1st Workshop on Machine Learning on Edge in Sensor Systems (SenSys-ML 2019). ACM, New York, NY, USA, 7-12.
- 2019 Giuseppe Bernieri, Mauro Conti, Matteo Sovilla, and **Federico Turrin**. 2020. *ALISI: A Lightweight Identification System based on Iroha*. In The 35th ACM/SIGAPP Symposium on Applied Computing (SAC '20), March 30-April 3, 2020, Brno, Czech Republic. ACM, New York, NY, USA, 3 pages. (Status: Accepted – will be presented in March 2020)

Research Activities

- 2020 Member of Technical Program Committee of *AIoT2020*
- 2019 He visited *Stevens Institute of Technology*, Hoboken, New Jersey, United States, under the supervision of Prof. Giuseppe Ateniese
- 2019 He visited *New York Institute of Technology*, Hoboken, New York, United States, under the supervision of Prof. Paolo Gasti

Other Activities

- He is currently involved in co-supervisor activities and support to thesis students.
- Collaborations with companies for consultancy and project development activities within UniSMART Padova Enterprise.