





Francesco Vinci

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EXPERIENCE

- **Fraunhofer FIT**  September 2024 - Current
Visiting Researcher Aachen, Germany
- **University of Padova**  April 2023 - July 2024
Teaching Assistant Padova (PD), Italy
 - Database Teaching Assistant in Computer Science Bachelor's degree.
- **Danieli Automation**  March 2022 - August 2022
R&D Data Science Intern Buttrio (UD), Italy
- **University of Padua**  September 2019 - December 2019
Librarian Padova (PD), Italy

EDUCATION

- **University of Padova** October 2022 - Current
Ph.D. in Brain, Mind & Computer Science Padova (PD), Italy
 - Curricula: Computer Science for Societal Challenges and Innovation
 - Project: *Data-driven Optimization of Processes in Public Administrations: When Human Perception meets Objectivity*
 - Supervisor: prof. Massimiliano de Leoni
- **University of Padova** October 2020 - September 2022
M.Sc. Data Science Padova (PD), Italy
 - Thesis: *Semi-supervised Deep Learning methods for Video Anomaly Detection applied to sticking identification during steelmaking continuous casting process*
 - Supervisor: prof. Michele Rossi
 - Co-Supervisor: Andrea Zamolo
- **University of Padova** October 2016 - February 2020
B.Sc. in Mathematics Padova (PD), Italy
 - Thesis: *Enlargement of filtrations in discrete time and applications to finance*
 - Supervisor: prof. Claudio Fontana

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

- [C.1] **Francesco Vinci**, Massimiliano de Leoni (2024). **Repairing Process Models Through Simulation and Explainable AI**. In *International Conference on Business Process Management*, pp. 129-145. Springer Nature Switzerland. September 1-6, 2024, Krakow, Poland. DOI: 10.1007/978-3-031-70396-6_8
- [C.2] Alessandro Padella, Felix Mannhardt, **Francesco Vinci**, Massimiliano de Leoni, Irene Vanderfeesten (2024). **Experience-Based Resource Allocation for Remaining Time Optimization**. In *International Conference on Business Process Management*, pp. 345-362. Springer Nature Switzerland. September 1-6, 2024, Krakow, Poland. DOI: 10.1007/978-3-031-70396-6_20
- [C.3] Massimiliano de Leoni, **Francesco Vinci**, Sander Leemans, Felix Mannhardt (2023). **Investigating the Influence of Data-Aware Process States on Activity Probabilities in Simulation Models: Does Accuracy Improve?**. In *International Conference on Business Process Management*, pp. 129-145. Springer Nature Switzerland. September 11-15, 2023, Utrecht, The Netherlands. DOI: 10.1007/978-3-031-41620-0_8

SKILLS

- **Programming Languages:** Python, R, MATLAB, C, C++, Julia
- **Data Science & Machine Learning:** TensorFlow, PyTorch, Keras, scikit-learn, XGBoost, Scipy
- **Database Systems:** PostgreSQL, PgAdmin
- **Mathematical & Statistical Tools:** MATLAB, R Studio
- **Specialized Area:** Process Mining, Business Process Simulations
- **Other Tools & Technologies:** Git, ProM Tools, CPN Tools, Apromore
- **Markup Languages:** HTML, CSS, LaTeX, Microsoft Office

TRAINING AND DEVELOPMENT

- **6th International Conference on Process Mining (ICPM 2024)** 14-18 October 2024
Technical University of Denmark, Lyngby, Denmark 
 - Attendee
- **22nd International Conference on Business Process Management (BPM 2024)** 1-6 September 2024
AGH University, Krakow, Poland 
 - Attendee and Presenter
- **12th European Big Data Management & Analytics Summer School (eBISS 2024)** 1-5 July 2023
University of Padova, Padova, Italy 
 - Organizer
- **21st International Conference on Business Process Management (BPM 2023)** 11-15 September 2023
Utrecht University, Utrecht, The Netherlands 
 - Attendee and Presenter
- **11th European Big Data Management & Analytics Summer School (eBISS 2023)** 3-7 July 2023
Universitat Politècnica de Catalunya, Barcelona, Spain 
 - Attendee

HACKATHONS

- **World Data League Finalist** July 2021
World Data League 
- **Youth in Action Premio Promotori Winner** April 2021
Fondazione Italiana Accenture 

ADDITIONAL INFORMATION

Languages: Italy (C2), English (C1)