






# Francesco Vinci

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## EXPERIENCE

- **University of Padova**   
*Teaching Assistant*  
◦ Database Teaching Assistant in Computer Science Bachelor's degree.  
April 2023 - Current  
Padova (PD), Italy
- **RWTH Aachen University**   
*Visiting Researcher*  
◦ Visiting Researcher at the Process and Data Science (PADS) Research Group.  
◦ Supervised by Prof. Wil van der Aalst.  
March 2025 - September 2025  
Aachen, Germany
- **Fraunhofer FIT**   
*Visiting Researcher*  
◦ Visiting Researcher at the Process Mining Group in Aachen.  
◦ Supervised by Prof. Wil van der Aalst and Dr. Gyunam Park.  
September 2024 - March 2025  
Aachen, Germany
- **Danieli Automation**   
*R&D Data Science Intern*  
◦ Intern at the Danieli Research Center.  
March 2022 - August 2022  
Buttrio (UD), Italy
- **University of Padua**   
*Librarian*  
◦ Librarian at the "Giovanni Colombo" Statistical Sciences Library.  
◦ Assistant at the Central Interlibrary Loan (ILL) Office (UCPI).  
September 2019 - December 2019  
Padova (PD), Italy

## EDUCATION

- **University of Padova**  
*Ph.D. in Brain, Mind & Computer Science*  
◦ 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  
October 2022 - Current  
Padova (PD), Italy
- **University of Padova**  
*M.Sc. in Data Science*  
◦ 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  
October 2020 - September 2022  
Padova (PD), Italy
- **University of Padova**  
*B.Sc. in Mathematics*  
◦ Thesis: *Enlargement of filtrations in discrete time and applications to finance*  
◦ Supervisor: prof. Claudio Fontana  
October 2016 - February 2020  
Padova (PD), Italy

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, \*=UNDER REVIEW









- [C.5] Ngoc-Diem Le, Alessandro Padella, **Francesco Vinci**, Massimiliano de Leoni (2025). **Leveraging Counterfactuals for Prescriptive Process Analytics**. In *Process Technology Forum, International Conference on Business Process Management*. **Accepted**.
- [C.4] **Francesco Vinci**, Gyunam Park, Wil van der Aalst, Massimiliano de Leoni (2025). **Online Discovery of Simulation Models for Evolving Business Processes**. In *International Conference on Business Process Management*. **Accepted**.
- [J.1] **Francesco Vinci**, Massimiliano de Leoni (2025). **Balancing Fitness and Precision in Process Model Repair: Framework Formalization, Assessment, and Benefits for Simulation**. In *Process Science*, Vol. 2, n. 3, Best Process Science Conference Papers 2024 Collection. Springer Nature. DOI: 10.1007/s44311-025-00007-7

- [C.3] **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.1] 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

- **Specialized Area:** Process Mining, Business Process Management, Business Process Simulations, Artificial Intelligence, Machine and Deep Learning
- **Programming Languages:** Python, R, MATLAB, C, C++, Julia
- **Data Science & Machine Learning:** TensorFlow, PyTorch, Keras, scikit-learn, XGBoost, Scipy, Catboost, SHAP, River, Pm4Py
- **Database Systems:** PostgreSQL, PgAdmin
- **Mathematical & Statistical Tools:** MATLAB, R Studio
- **Other Tools & Technologies:** Git, ProM Tools, CPN Tools, Apromore, Cortado
- **Markup Languages:** HTML, CSS, LaTeX, Microsoft Office

## TRAINING AND DEVELOPMENT

- **7th International Workshop on Process-Oriented Data Science for Healthcare (PODS4H24)** 14 October 2024  
Technical University of Denmark, Lyngby, Denmark   
◦ Attendee and Speaker
- **6th International Conference on Process Mining (ICPM 2024)** 14 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 Speaker
- **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 Speaker
- **11th European Big Data Management & Analytics Summer School (eBISS 2023)** 3-7 July 2023  
Universitat Politècnica de Catalunya, Barcelona, Spain   
◦ Attendee
- **Youth in Action for SDGs** 6 May 2022  
Fondazione Italiana Accenture, Milan, Italy   
◦ Attendee
- **Web Summit 2021** 1-4 November 2021  
Lisbon, Portugal   
◦ Attendee

## HACKATHONS

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

## ADDITIONAL INFORMATION

**Languages:** Italian (C2), English (C1), German (A1)