



Alessandro Padella

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EDUCATION AND TRAINING

OCT 2024 – CURRENT Padova, Italy

RESEARCH FELLOW/POST-DOCTORAL RESEARCHER Università degli Studi di Padova

I am working on a project called SymboliG, which aim to apply constraints to Process Mining and Business Process Management.

My scientific supervisor is Massimiliano de Leoni.

Website <https://www.unipd.it/> | **Field of study** Data Science/Process Mining

30 SEP 2021 – 26 MAR 2025 Padova, Italy

PHD IN BRAIN, MIND AND COMPUTER SCIENCE Università degli studi di Padova

My supervisor was Professor De Leoni.

The topic of my research was how to apply recommender systems to process mining, work on the explainability of recommendations, and exploit the research on XAI and graph neural networks.

The PhD program has been funded by MyInvenio, a data science company that has been acquired by the IBM group.

Website <http://hit.psy.unipd.it/BMCS-Overview> | **Field of study** Data Science/Process Mining | **Level in EQF** EQF level 8

6 NOV 2023 – 8 MAR 2024 Eindhoven, Netherlands

GUEST RESEARCHER AT TU/EINDHOVEN Technical University of Eindhoven

I worked on the paper Experience-Based Resource Allocation for Remaining Time Optimization under the supervision of Felix Mannhardt; it was then accepted at the BPM conference.

The main topic of the paper is to provide a novel framework for resource allocation, addressing the problem of unfair distribution of workload in an organization.

There, I also started to collaborate with Paul Kobialka, a PhD student from the University of Oslo.

Website <https://www.tue.nl/en/> | **Field of study** Process Mining

MAR 2022 – CURRENT Padova, Italy

DATABASE TEACHING ASSISTANT Università degli studi di Padova

I was helping the professor in organizing the lab lessons related to the course Database for the bachelor's degree in Computer Science L-31.

Field of study Database and network design and administration | **Number of credits** 9

SEP 2019 – 21 SEP 2021

DATA SCIENCE MASTER'S DEGREE Università degli studi di Padova

Thesis title: Top-down processing of noisy and adversarial stimuli in deep generative models

Machine learning, deep learning, and data analytics tools develop an interest in unsupervised learning and neuroscientific data processing.

The course is completely held in English.

Field of study Information and Communication Technologies | **Final grade** 110/110 with honors |

Thesis I have worked on a thesis about generative models with Professor Zorzi and Testolin.

SEP 2016 – AUG 2019 Italy

MATHEMATICS BACHELOR'S DEGREE Università degli studi di Perugia

Final thesis in statistics on the use of overlapping and grouping functions for the aggregation of fuzzy sets, with application to a machine learning model based on fuzzy rules.

National classification 101/110

1 JUL 2024 – 5 JUL 2024 Padova, Italy

ORGANIZING COMMITTEE MEMBER OF TWELFTH EUROPEAN BIG DATA MANAGEMENT & ANALYTICS SUMMER SCHOOL (EBISS 2024) Università degli Studi di Padova

Website <https://web.math.unipd.it/eBISS24/registration.html>

4 JUL 2022 – 8 JUL 2022

PROCESS MINING SUMMER SCHOOL RWTH Aachen

Website <https://www.process-mining-summer-school.org/>

18 JUL 2023 – 23 JUL 2023

VOLOUNTEER AT IEEE WORLD CONGRESS ON COMPUTATIONAL INTELLIGENCE, WCCI2022 Università degli studi di Padova

Website <https://wcci2022.org/>

SUBREVIEWER FOR 22ND INTERNATIONAL CONFERENCE ON PERSPECTIVES IN BUSINESS INFORMATICS RESEARCH, BIR 2023

Website <https://bir2023.unicam.it/>

SUBREVIEWER FOR FIFTH INTERNATIONAL WORKSHOP ON LEVERAGING MACHINE LEARNING IN PROCESS MINING (ML4PM 2024)

● PUBLICATIONS

[Experience-Based Resource Allocation for Remaining Time Optimization](#)

Alessandro Padella, [Felix Mannhardt](#), [Francesco Vinci](#), [Massimiliano de Leoni](#), [Irene Vanderfeesten](#): Experience-Based Resource Allocation for Remaining Time Optimization. [BPM 2024](#): 345-362

[Explainable Process Prescriptive Analytics.](#)

Alessandro Padella, [Massimiliano de Leoni](#), [Onur Dogan](#), [Riccardo Galanti](#): Explainable Process Prescriptive Analytics. [ICPM 2022](#): 16-23

[Resource Allocation in Recommender Systems for Global KPI Improvement](#)

Alessandro Padella, [Massimiliano de Leoni](#): Resource Allocation in Recommender Systems for Global KPI Improvement. [BPM \(Forum\) 2023](#): 249-266

[Achieving Fairness in Predictive Process Analytics via Adversarial Learning](#)

[Massimiliano de Leoni](#), Alessandro Padella: Achieving Fairness in Predictive Process Analytics via Adversarial Learning. [CoopIS 2024](#): 346-354

[Explainable and Responsible Process Prescriptive Analytics \(Extended Abstract\)](#)

Alessandro Padella: Explainable and Responsible Process Prescriptive Analytics (Extended Abstract). [ICPM Doctoral Consortium / Demo 2022](#): 41-45

An Experimental Comparison of Alternative Methods for Event-Log Augmentation

Alessandro Padella, Massimiliano de Leoni, Francesco Vinci: An Experimental Comparison of Alternative Methods for Event-Log Augmentation. Journal of Business & Information Systems Engineering. **Under Review.**

Enhancing Predictive Process Monitoring on Small-Scale Event Logs Using LLMs

Alessandro Padella, Paolo Frazzetto, Nicolò Navarin, Massimiliano de Leoni: Enhancing Predictive Process Monitoring on Small-Scale Event Logs Using LLMs. Business Process Management Conference 2025. **Under Review.**

Leveraging on Counterfactuals for Prescriptive Process Analytics

Diem Ngoc Le, Alessandro Padella, Francesco Vinci, Massimiliano de Leoni: Leveraging on Counterfactuals for Prescriptive Process Analytics. Business Process Management Conference 2025. **Under Review.**

CONFERENCES AND SEMINARS

23 OCT 2022 – 28 OCT 2022 Bolzano
4th International Conference on Process Mining, October 23-28, 2022

I was a speaker presenting my paper

11 SEP 2023 – 15 SEP 2023 Utrecht
21st International Conference on Business Process Management

I was a speaker presenting my paper

1 SEP 2024 – 6 SEP 2024 Cracow
22nd International Conference on Business Process Management

I was a speaker presenting my paper

IEEE World Congress on Computational Intelligence, WCCI2022

I was volunteering

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

THESIS SUPERVISION

2022
Michele Gatto, Bachelor’s thesis in Computer Science, "Design and Development of a Graphical Interface for a Business Process Instance Recommendation System"

2023
Mohammed Ismail Tirmizi, Data Science Master's thesis from Erasmus Mundus program, "Prescriptive Process Analytics using Counterfacts"

2023
Jiani Wu, Data Science Master's thesis, "Techniques for Discovering Event-Log Generative Models"

● **WORK EXPERIENCE**

OCT 2024 – CURRENT

RESEARCH FELLOW/POST-DOCTORAL RESEARCHER UNIVERSITÀ DEGLI STUDI DI PADOVA

See above.

FEB 2021 – JUL 2021 Padova, Italy

DATA SCIENCE TRAINEE ENGISOFT

I worked on the AI part of the Digiprime project under the supervision of a Data Engineer and a Math engineer

MAY 2020 – 7 JUL 2020 Panicale, Italy

ISTAT SURVEYOR ON THE TERRITORY ISTAT

● **DIGITAL SKILLS**

Programming skills

SQL | LaTeX | Matlab | Python (proficient user) | R | C++

Data Science specific skills

Gephi | Disco | JalView | ProM | Woped

General skills

Microsoft Office | Zoom | Google Drive

● **DRIVING LICENCE**

Driving Licence: AM

Driving Licence: B

● **HOBBIES AND INTERESTS**

About me

I participated in a hackathon data science challenge: World Data League; we reached the finals and classified eight in a team with three other data scientists. <https://worlddataleague.com>

We also participated in other hackathons for Unipol, Accenture, and Cisco as a team.

I was part of the Math and logic team; in 2014, we won the Italian championship organized by Puzzle Fountain.

I also learned how to play guitar, and I consider myself a very healthy person. I also like reading. I did a volunteering activity once a week in a society where we disassemble old computers and reassemble them to create better ones for people who cannot afford a personal computer.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication skills

Good communication skills both in formal and informal context, the first one gained during my years in university where there were oral exams and the second one gained through my experience as bartender.