









# Erasmo Purificato









## Researcher

-  May 11, 1991
-  Magdeburg, Germany
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
## About Me

I'm a technology enthusiast and a great football passionate. My life is marked by Muhammad Ali's quote "*Impossible is nothing*".

## Hard Skills

-  User Profiling - HCI ● ● ● ● ●
-  Machine Learning ● ● ● ● ●
-  AI Ethics - Fairness ● ● ● ● ●
-  Explainable AI ● ● ● ● ●
-  Recommender Systems ● ● ● ● ●
-  Deep Learning ● ● ● ● ●
-  Information Retrieval ● ● ● ● ●
-  Computer Vision ● ● ● ● ●

## Soft Skills

-  Teamwork ● ● ● ● ●
-  Learning attitude ● ● ● ● ●
-  Critical thinking ● ● ● ● ●
-  Problem-solving ● ● ● ● ●
-  Leadership ● ● ● ● ●
-  Communication ● ● ● ● ●
-  Time management ● ● ● ● ●

## Work Experience

- Jul 2021 – currently **Adjunct Professor** University of Rome Guglielmo Marconi  
Principal Lecturer of the course "Software Engineering and Quality" for the Master of Science in Computer Engineering (LM-32).
- Feb 2020 – currently **Research Assistant** Otto von Guericke University Magdeburg  
Research and teaching in the "Digital Transformation and Digital Humanities" group in the fields of: HCI, Recommender Systems, Artificial Intelligence, Machine Learning, NLP and Usability.
- Feb 2020 – currently **Research Fellow** Georg Eckert Institute Brunswick  
Member of the department "Digital Information and Research Infrastructures", involved in the development of a systematic User Monitoring service and in the building of a mobile Usability Lab.
- Sep 2018 – Jun 2019 **Serie A Football Match Analyst** KlipDraw  
Analysis of the best tactical plays and goals of the Italian Serie A matches, using KlipDraw Animate professional software.
- Sep 2017 – Dec 2019 **IT Consultant** Blue Reply  
Positions held:
  - **AI Expert**  
Project management, design and implementation of machine learning and deep learning systems with open source frameworks and libraries (e.g. PyTorch, Keras, Tensorflow, scikit-learn, pySpark, LIME, SHAP, Flask).
  - **Technical Leader of the Machine Learning Innovation Team**  
Solution design and implementation of machine learning and deep learning use cases (churn analysis, predictive maintenance, fraud detection), both with IBM (Watson Studio, Watson Machine Learning) and open source tools (e.g. Python scripts, KNIME, Apache Spark) mainly in banking and financial areas.
  - **Product Specialist**  
Project management and implementation of cognitive information retrieval systems with IBM tools (Watson Content Analytics, Watson Enterprise Search).

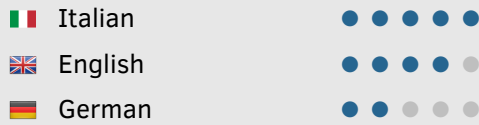
## Education

- May 2020 – currently **PhD in Computer Science** Otto von Guericke University Magdeburg  
Title of the doctoral project: "*Beyond-Accuracy Perspectives on Graph Neural Network-Based Models for Behavioural User Profiling*".
- Feb 2018 – Dec 2019 **2<sup>nd</sup> level Master's degree in Artificial Intelligence** University of Turin  
In-depth studies on different sectors of Artificial Intelligence: Machine Learning, Deep Learning, Image Processing, Natural Language Processing, Business Intelligence, Big Data Analytics, AI Ethics.  
**Master Thesis (110/110)**  
Development of a Visual Search system for an e-commerce portal.
- Nov 2014 – May 2017 **Master's degree Computer Engineering** University of Naples "Federico II"  
Specialization Area: Information Technology management.  
**Master Thesis (110/110 cum Laude)**  
Multimedia and geographic data integration for cultural heritage information retrieval.
- Sep 2011 – Nov 2014 **Bachelor's Degree Computer Engineering** University of Naples "Federico II"  
Focus: Artificial Intelligence theory and Software engineering.  
**Bachelor Thesis (109/110)**  
Design of a programmable delay line in CMOS technology.

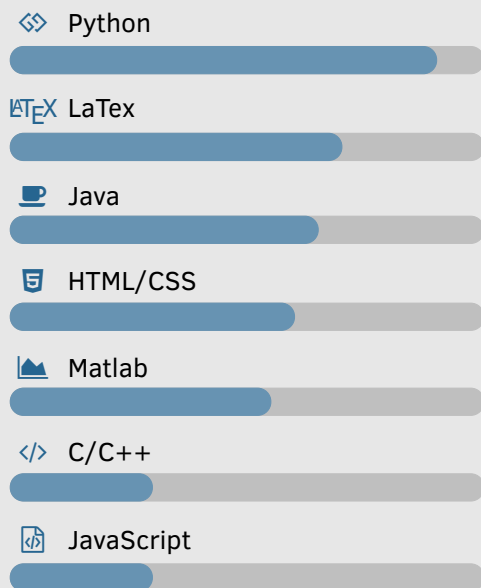
# Erasmus Purificato

Researcher

## Languages



## Programming



## Certifications

Dec 2020	<b>Recommender Systems Specialization</b> <i>Coursera</i>
Dec 2018	<b>Football Performance &amp; Data Analysis</b> <i>Elite Football Center</i>
Apr 2018	<b>Master in Data Analysis in Team Sports</b> <i>360MSS</i>
Mar 2017	<b>Football Match Analyst</b> <i>Elite Football Center</i>

## Teaching and Invited Talks

Apr 2020 – currently	<b>Teaching staff member</b> Teaching assistant for theory lectures and primary lecturer for exercise classes in the following courses: <ul style="list-style-type: none"><li>• <b>Knowledge Engineering and Digital Humanities</b> (<i>Master</i>)</li><li>• <b>Introduction to Digital Humanities</b> (<i>Bachelor</i>)</li></ul>	Otto von Guericke University Magdeburg
Mar 2019	<b>Invited seminar speaker</b> Seminar “ <i>Churn Prediction with Machine Learning</i> ” about the importance of customer churn prediction in companies and how to tackle it with machine learning methods, performed for the Master students in Computer Engineering.	University of Brescia
Feb 2019 – Oct 2019	<b>Knowledge Sharing program</b> Participation in events for knowledge sharing with other colleagues from all Reply companies. <ul style="list-style-type: none"><li>• <b>Decrypting Machine Learning models with LIME Labcamp</b> (Turin, 17<sup>th</sup> October 2019) Speaker for a seminar about explainability techniques and the importance of trusting a Machine Learning model.</li><li>• <b>Churn Prediction with Machine Learning Labcamp</b> (Turin, 13<sup>th</sup> February 2019) Speaker for a seminar about the importance of customer churn prediction in a Telco company.</li></ul>	Reply
Jun 2017	<b>Invited seminar speaker</b> Seminar about “ <i>Multimodal Information Retrieval with Apache Solr</i> ” performed during the course of Information Retrieval Systems, held by professor Antonio Maria Rinaldi, for the Master’s degree in Computer Engineering.	University of Naples “Federico II”

## Selected Publications

Mar 2022	<b>First Workshop on Adaptive and Personalized Explainable User Interfaces (APEX-UI 2022)</b> <i>E. Purificato, C. Musto, P. Lops, E.W. De Luca</i> Proceedings of 27th International Conference on Intelligent User Interfaces (IUI '22 Companion), 1-3.
Sep 2021	<b>Evaluating Explainable Interfaces for a Knowledge Graph-Based Recommender System</b> <i>E. Purificato, B. Manikandan, P. Karanam, M. Pattadkal, E.W. De Luca</i> Proceedings of the 8th Joint Workshop on Interfaces and Human Decision Making for Recommender Systems (IntRS'21), co-located with RecSys'21, 73-88.
Aug 2021	<b>Dynamic Privacy-Preserving Recommendations on Academic Graph Data</b> <i>E. Purificato, S. Wehnert, E.W. De Luca</i> Computers 10, 9 (2021), 107.
Apr 2018	<b>Multimedia and geographic data integration for cultural heritage information retrieval</b> <i>E. Purificato, A.M. Rinaldi</i> Multimedia Tools and Application, 1-23.