Erich Robbi

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EDUCATION

Oxford Machine Learning Summer School — Apr. 2024
University of Oxford — *Oxford, United Kingdom*
Topics: Generative AI, Representation Learning, Foundational Models, etc.

Ph.D. in Computer Science — Nov. 2023 – Ongoing
Structured Machine Learning group – University of Trento — *Trento, Italy*
Research areas: Hybrid Decision Making, eXplainable AI

Master of Science in Data Science — Sep. 2021 – Sep. 2023
110/110 Cum Laude –University of Trento — *Trento, Italy*
Main courses: Machine Learning, Statistical Learning, Data Visualization,
Scientific Programming, Big Data Technologies

Bachelor in Interfaces and Comunication Technologies — Sep. 2018 – Sep. 2021
105/110 – University of Trento — *Trento, Italy*
Main courses: Human Computer Interaction, Graphic Interfaces Design, Web
Developement

EXPERIENCE

Junior Researcher and Technologist — Jan. 2023 – Dec. 2023
Fondazione Bruno Kessler — *Trento, Italy*
- Researched generative models in the context of Whole Slides Images (WSIs) in Digital Pathology
- Engineered a data pipeline for collecting and cleaning WSIs for subsequent analysis in ongoing research initiatives

Data Scientist intern — 2023
University of Trento — *Trento, Italy*
- Worked on a recommender system that suggests customized products based on user profiles

Web Developer intern — Oct. 2020 – Jan. 2021
University of Trento — *Trento, Italy*

SELECTED PUBLICATIONS

Generating and evaluating synthetic data in digital pathology through diffusion models — 2024
in Scientific Reports - Nature
Authors: Matteo Pozzi, Shahryar Noei, **Erich Robbi**, Luca Cima, Monica
Moroni, Enrico Munari, Evelin Torresani, Giuseppe Jurman

Personalized bundle recommendation using preference elicitation and the Choquet integral — 2024
in Frontiers in Articial Intelligence
Authors: **Erich Robbi**, Marco Bronzini, Paolo Viappiani, Andrea Passerini

Environmentally-aware bundle recommendation using the choquet integral — 2023
in 12th Conference on Prestigious Applications of Intelligent Systems (PAIS)
Authors: Marco Bronzini, **Erich Robbi**, Paolo Viappiani, Andrea Passerini

WORKSHOPS

AI-based Solutions for Better Endovascular Repair Strategies — Jun. 2024
Hybrid Human-Machine Interaction in Surgery at Hamlyn Symposium — *London, United Kingdom*
Authors: **Erich Robbi**, Daniele Ravanelli, Igor Raunig, Sara Allievi, Annalisa
Trianni, Stefano Bonvini, Andrea Passerini

Talks

From Data to Models   Oct. 2023
SiPMEL National Congress   *Riva del Garda, Italy*
Presenter of a case study illustrating the use of a prediction model in laboratory
medicine and clinical decision-making with Artificial Intelligence

Skills

Languages: Python, JavaScript, HTML/CSS, SQL, R, LaTeX
Frameworks: VueJS, FastAPI, MONAI
Developer Tools: Git, VS Code
Libraries: Pytorch, Pandas, NumPy, VTK, ggplot2, tidymodels, dplyr
Softskills: Teamplayer, Bias for Action, Active Listener, Attentive to Details