

# Federico Ravenda

## EDUCATION

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<b>Università della Svizzera italiana (USI)</b> <i>PhD in Computer Science</i>	Lugano, Switzerland <i>Mar. 2023 – Present</i>
<b>National Institute of Informatics (NII)</b> <i>Visiting Research Fellow, Computer Science</i>	Tokyo, Japan <i>Sep. 2024 – Dec. 2024</i>
<b>Milano-Bicocca University</b> <i>Master's degree in Statistics – Data Science Track, Final Grade: 110 cum Laude/110</i> <ul style="list-style-type: none"><li>• <b>Thesis Title:</b> Forecasting Spatio-Temporal Data with Bayesian Neural Networks</li></ul>	Milan, Italy <i>Sep. 2020 – Jan. 2023</i>
<b>Universidad Carlos III de Madrid</b> <i>Exchange Student in Statistics</i>	Madrid, Spain <i>Aug. 2019 – Feb. 2020</i>
<b>Milano-Bicocca University</b> <i>Bachelor's degree in Statistics – Information Systems Track, Final Grade: 110 cum Laude/110</i> <ul style="list-style-type: none"><li>• <b>Thesis Title:</b> Machine Learning Techniques for Automatically Processing Malware Logs</li></ul>	Milan, Italy <i>Sep. 2017 – Sep. 2020</i>

## RESEARCH EXPERIENCE

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<b>Fondazione Ticino Cuore</b> <i>Research Fellow</i> <ul style="list-style-type: none"><li>• Developed Bayesian, Machine and Deep Learning models to predict Out-Of-Hospital Cardiac Arrest rates and occurrences at municipality level in Ticino region.</li></ul>	Lugano, Switzerland <i>Mar. 2023 – Aug. 2024</i>
<b>Milano-Bicocca University</b> <i>Research Fellow</i> <ul style="list-style-type: none"><li>• Worked on scenario-tree generation via Bayesian Optimization in Multistage Stochastic Optimization problems.</li></ul>	Milan, Italy <i>Apr. 2022 – Jun. 2022</i>
<b>Milano-Bicocca University</b> <i>Research Fellow</i> <ul style="list-style-type: none"><li>• Worked as research fellow in the Statistics department. In particular, I developed Bayesian Models to estimate and predict the risk of contagion by COVID-19.</li></ul>	Milan, Italy <i>Dec. 2021 – Apr. 2022</i>
<b>Milano-Bicocca University &amp; SUPSI University</b> <i>Research Fellow</i> <ul style="list-style-type: none"><li>• Developed supervised machine learning algorithms to identify intruding-malware-families from shell-history-log of Unix systems.</li></ul>	Milan, Italy & Lugano, Switzerland <i>Jan. 2020 – Sep. 2021</i>

## TEACHING EXPERIENCE

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<b>Università della Svizzera italiana</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>• Introduction to Bayesian Computing (Spring 2023, 2024, 2025)</li><li>• Information Retrieval (Fall 2023)</li></ul>	Lugano, Switzerland <i>2023 – 2025</i>
<b>Milano-Bicocca University</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>• Probability &amp; Statistical Inference (Spring 2023)</li><li>• Introduction to Python programming (Spring 2022)</li><li>• Introduction to Databases (Fall 2021)</li><li>• Introduction to R programming (Spring 2021)</li></ul>	Milan, Italy <i>2021 – 2023</i>

## FELLOWSHIPS & AWARDS

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<b>ESSIR 2023 grant</b> <i>European Summer School on Information Retrieval, Wien, Austria</i>	Jun. 2023
<b>Generali Italia Data Challenge 2021</b> <i>Winner</i>	Nov. 2021

## SKILLS & LANGUAGES

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**Programming:** R, Python, Julia, SQL

**Languages:** English (Fluent), Spanish (Fluent), Italian (Native)

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