

# Marco Furlan

Data Scientist with extensive expertise in AI models - find my works at [marcofurlan.com](https://marcofurlan.com)

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## EDUCATION

**Master's of Data Science**, University of Padua, 110L/110 (full marks with honors) **Sep 2021 - Apr 2024**

*Skills: Machine and Deep Learning, Statistics, Computer Vision, Business Economic and Financial Data; R and RStudio, Python (NumPy, Pandas, PyPlot, SciPy, SciKit-Learn, Seaborn, Tensorflow and Keras, PyTorch), SQL, Spark and PySpark*

**Bachelor's of Mathematics**, University of Padua

**Sep 2018 - Dic 2021**

*Skills: Matlab, Mathematica, Algorithmics, Computational Mathematics, Linear Algebra, Projective Geometry, Group Theory, Real and Complex Analysis, Physics*

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## PROFESSIONAL EXPERIENCE

**AI Researcher for the Web Marketing company SiteBySite (Padua)**

**May - October 2024**

Was awarded a scholarship from the University of Padua, during which I worked as a researcher for [SiteBySite](https://www.sitebysite.com), a leading web marketing company with offices in Padua and Milan. My primary focus was contributing to a region-funded project aimed at integrating advanced AI innovations across various aspects of the company's operations.

*Skills: Python, JavaScript, APIs Integration, HTML, Google Sheets, Google Apps Script, Networking and Teamwork, Project Management, Data Analysis, Statistical Analysis*

**Research Intern - ICube's laboratories (University of Strasbourg)**

**April - October 2023**

My Master's Internship and Thesis was held at the ICube research laboratories in Strasbourg. Here I developed and evaluated an unsupervised Domain Adaptation technique (Batch Normalization Adaptation) for image segmentation of mitochondria using a UNet model. I conducted empirical analysis to assess performance across diverse datasets, aiming to predict its effectiveness without supervision.

*Skills: Python, Tensorflow and Keras, PyTorch, Plotly, Git, Github, Deep Learning, Image Segmentation, Computer Vision, Data Augmentation, Model Evaluation, Data Visualization*

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## ACHIEVEMENTS

**Unox AWS Hackathon (2024)** - Third place in a Hackathon using Anthropic Claude and Amazon Bedrock to design innovations for the leading company [Unox](https://www.unox.com) (Padua).

**Mathematical Olympiads (2017-2018)** - Participated twice to the national phase of Italian Mathematical Olympiads, winning both times bronze medal, 500€, and an official spot in the "[National Register of Excellence](https://www.olympiaditalia.org/)".

**Bocconi University Mathematical Games (2012-2014-2016-2017-2018)** - Participated to the national phase multiple times, got 8th nationally in 2016 grazing the international phase.

**Rotary International Scholarship (2018)** - 2000€ scholarship dedicated to excellent high school students.

**Interculture Scholarship (2016)** - won a 1-month scholarship to Montréal (Canada) for French studies.

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## PROGRAMMING

Python, R, Matlab, Mathematica, JavaScripts, SQL

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## LANGUAGES

**Italian** C2 - Native speaker  
**English** C1 - Fluent and experienced communicator  
**French** C1 - Fluent communicator with 6-month working experience in France  
**Spanish** A2 - Good understanding and colloquial skills

## EXTRACURRICULAR ACTIVITIES

**Professor** - Taught Maths and Physics at Scientific High School for half a year

**Conservatory of Venice** - Studied formally four years for classical piano

**Volunteering** - Volunteered as summer camp entertainer

**Music production and sound design** - Five years of experience in mixing and mastering songs with professional tools