Matteo Dora

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I'm an applied mathematics researcher with a substantial background in computer science and a strong interdisciplinary attitude. My scientific interests encompass signal & image processing, sparse representations, machine learning, stochastic processes, and time–frequency analysis.

Work & Education

2022— **Postdoctoral researcher**
Applied Mathematics & Computational Biology
École Normale Supérieure (Paris, France)

2018–2022 **PhD in Neuroscience**
Mathematical models and signal processing methods to explore biological mechanisms across multiple scales: from intracellular dynamics to neural time series
École Normale Supérieure (Paris, France)

2020 **Master of Business Administration**
Quantic Institute of Business & Technology (Washington DC, US)   *(distance learning)*

2018 **Joint Master's degree in *Theoretical Physics* & *Mathematical Modeling for Engineering***
Sorbonne University (Paris, France) — Polytechnic University of Turin (Italy)

2016— **Freelance software engineer**
Web applications & infrastructure

2014–2016 **Full-stack web developer**
Skuola Network (Turin, Italy)

2016 **Bachelor's degree in *Computer Engineering***
Polytechnic University of Turin (Italy)

2015 **Music diploma in *Classical Trumpet***
Conservatory of Turin (Italy)

Training & certifications

2022 **Statistical Physics of Deep Learning**
One-week training on statistical–mechanical principles underlying deep learning
Lake Como School of Advanced Studies (Como, Italy)

2021 **HEC Challenge Plus program**
Intensive 9-month entrepreneurship training for innovative projects
HEC Paris (France)

2018 **Spring College on *Physics of Complex Systems***
A 4-week program on statistics, machine-learning, biophysics, and quantum mechanics
International Center for Theoretical Physics (Trieste, Italy)

Other activities

2020— **Active member of CICAP, Italy's skeptical organization**
CICAP Information Technology team

2016— **Wine taster**
Italian Wine Tasters Organization (ONAV)

2015 **Community Teaching Assistant, *Software security***
Coursera, online education platform

Languages

Italian *Native speaker*   **French** *Advanced*   **English** *Advanced*