

Mathéo Tripnaux-Moreau

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FORMAL EDUCATION

Neuromod Institute — Master of Science in Modeling for Neural and Cognitive Systems
Sept 2026 – present

Université Côte d'Azur — Bachelor's Degree in Computer Science
Oct 2024 – July 2026
Nice, France
Coursework : Algorithmics, Programming, Relational Algebra, Computation Theory
Options : Machine Learning, Sets theory, Formal logic, Low-level Programming

Aix-Marseille Université — Bachelor's Degree in Life Sciences
Nov 2024 – Sept 2026
Marseille, France
Completed partially remotely, alongside the Computer Science degree.
Coursework : Cellular and Molecular biology, Metabolism, Classical and Quantum Physics
Options : Molecular Dynamics, Theoretical Biology, Biotechnology, Data Science

Université Paris-Saclay — Double Bachelor's Degree in Computer Science & Biology
Sept 2023 – June 2024
Paris, France
Moved to Paris to complete this (unique in France) double degree.
Coursework : Organic Chemistry, Thermodynamics, Bioinformatics, Linear Algebra, Calculus

Lycée Masséna — European Baccalaureate in General Pathway
Sept 2021 – June 2023
Nice, France
Options : Computer Science, Life and Earth Sciences, Mathematics, French, English

INFORMAL EDUCATION

Wolfram Science — Summer Research Institute in Ruliology & Pure Computation
July 2026
Boston, USA
Selected for 21 days of technical lectures while producing a computational essay.
Coursework : Complexity Theory, Metamathematics, Computational Biology
A full scholarship was granted based on demonstrated alignment (4500 USD)

Neuromatch Academy — Summer Course in Computational Neuroscience
June 2026
Remote
Accepted for 3 weeks of hands-on tutorials about modern modeling.
Coursework : Causality Research, Stochastic processes, Dynamical Systems
Options : Interpretability, Complex Modeling, Python for Neuroscience

Active Inference Institute — Research Internship in Theoretical Neuroscience
Apr 2026
Remote
Publication : Epiplexity-Augmented Epistemic Value in Active Inference

Santa Fe Institute — Complexity Explorer Courses in Complex Systems
Jan 2026
Remote
Attended online lectures, followed hands-on tutorials and completed exams (94% grade).
Coursework : Origins of Life, Multi-Agent Systems

Wolfram Research — Winter School in Hypergraph Rewriting and Wolfram Science
Dec 2025 – Jan 2026
Remote
Selected to attend 3 weeks of technical lectures; produced a computational essay.
Publication : Ruliology of Boolean Networks, Wolfram Community Staff Picks
Coursework : Physics, Computation, Ruliology, Metamathematics
Options : Basic and Foundational Science, Theoretical Physics

G.TEC & BR41N.IO — Spring School in Neurotechnology and Brain-Computer Interfaces — May 2025

Université Côte d'Azur ICON — Spring School in Nonlinear Cell Photonics — Apr 2025

Université Côte d'Azur MECABIONIC — Spring School in Mechanobiology across fields — Mar 2025

Université Côte d'Azur LIFE — Winter School in Mitochondria in health, disease and aging — Dec 2024

Université Côte d'Azur — Bachelor's Degree, Free listener in Psychology — Sept 2022 – present
Followed in parallel with my personal cursus. No degree was delivered. — Nice, France
Coursework : Cognitive Science, Neurobiology, Sociology, Statistics

INRIA — Internship in Problem Solving and Algorithmics — Dec 2019
Coursework : Graph Theory, Discrete Mathematics — Sophia Antipolis, France
Presentation : Solving the Cops and Robber problem

EXTERNAL INVOLVEMENTS

Dry lab Member — Evry-Paris-Saclay Team for iGEM Competition — Jan 2025 – Oct 2025
Significantly improved photosynthesis efficiency in cyanobacteria.
- Awarded a Gold Medal, Best Basic Part Nomination

Lead Developer and Author — Genopole D4GEN Hackathon — May 2025
Developped an automated pipeline for discovery in bioproduction.
- Implemented universal API for synthetic biology part registries
- Built the first container image for biotech with >100 biotools
- Founded the Bricks.bio initiative to maintain this ecosystem

President and Founder — Synapse Ecosystem — Jan 2025 – present
Built an ecosystem to centralize independant science tools, games and media.
- Partenered with Google Developer Group and the Sophia Hack Lab
- Organized on-place Hackathon at Université Côte d'Azur, France

Team Leader — EFELIA 3IA Hackathon (Machine Learning) — Dec 2024
Presented a Bayesian approach to the menstrual inference problem.
- Implemented a proof-of-concept Time Series Transformer
- Predicted >165% better than the current mobile app market

Dry lab Manager — Evry-Paris-Saclay Team for iGEM Competition — Aug 2024 – Nov 2024
Allowed for targeted mutagenesis in phage-assisted protein evolution.
- Built *in silico* model (Protein Graph Transformer)
- Achieved best efficiency for XyLS-TPA binding
- Awarded a Gold Medal and Top 10 Overgraduate Teams
- Nominated for the Best Foundational Advance Project

ACTIVE WORKING GROUPS

Emerging Researcher — International Society for Artificial Life — Dec 2025 – present

Member — Nucleate Université Côte d'Azur — Sept 2025 – present
Contributed to the local chapter of a student-led biotech accelerator.