



# Mathéo Tripnaux-Moreau

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## ■ FORMAL EDUCATION

<b>Université Côte d'Azur</b> — Bachelor's Degree in Computer Science Coursework : Algorithmics, Programming, Relational Algebra, Computation Theory Options : Machine Learning, Sets theory, Formal logic, Low-level Programming	Oct 2024 – present Nice, France
<b>Aix-Marseille Université</b> — Bachelor's Degree in Life Sciences 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	Nov 2024 – present Marseille, France
<b>Université Paris-Saclay</b> — Double Bachelor's Degree in Computer Science & Biology Moved to Paris to complete this (unique in France) double degree. Coursework : Organic Chemistry, Thermodynamics, Bioinformatics, Linear Algebra, Calculus	Sept 2023 – June 2024 Paris, France
<b>Lycée Masséna</b> — European Baccalaureate in General Pathway Options : Computer Science, Life and Earth Sciences, Mathematics, French, English	Sept 2021 – June 2023 Nice, France

## ■ INFORMAL EDUCATION

<b>Wolfram Science</b> — Summer Research Institute in Ruliology & Pure Computation 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)	July 2026 Boston, USA
<b>Neuromatch Academy</b> — Summer Course in Computational Neuroscience 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	June 2026 Remote
<b>Active Inference Institute</b> — Research Internship in Theoretical Neuroscience Publication : Epilexity-Augmented Epistemic Value in Active Inference	Apr 2026 Remote
<b>Santa Fe Institute</b> — Complexity Explorer Courses in Complex Systems Attended online lectures, followed hands-on tutorials and completed exams (94% grade). Coursework : Origins of Life, Multi-Agent Systems	Jan 2026 Remote
<b>Wolfram Research</b> — Winter School in Hypergraph Rewriting and Wolfram Science 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	Dec 2025 – Jan 2026 Remote
<b>G.TEC &amp; BR41N.IO</b> — 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  
Developed 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.  
■ Partnered 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.