

PAUL COUSIN

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Education

International Master's Degree in Physics Of Complex Systems

SISSA & ICTP & PoliTO & Paris Cité & Sorbonne & Paris Saclay

Sep. 2023 – Ongoing

Trieste – Turin, Italy & Paris, France

International Bachelor's Degree in Physics (with Highest Honors)

Université Grenoble Alpes & University of North Carolina at Chapel Hill

Jan. 2021 – May 2023

Grenoble, France & Chapel Hill, USA

Diploma of Advanced Audiovisual Technician, Specialized in Editing

Lycée de la Communication

Sep. 2011 – May 2013

Metz, France

Certified Online Courses

2021 – 2024

- Computation in Complex Systems [↗](#)
- Foundations & Applications of Humanities Analytics [↗](#)
- Fractals and Scaling [↗](#)
- Game Theory I [↗](#) and II [↗](#)
- Introduction to Agent-Based Modeling [↗](#)
- Introduction to Complexity [↗](#)
- Introduction to Dynamical Systems and Chaos [↗](#)
- Introduction to Mathematical Thinking [↗](#)
- Learn JavaScript [↗](#)
- Learn Python 3 [↗](#)
- Machine Learning [↗](#)
- Nonlinear Dynamics: Mathematical and Computational Approaches [↗](#)
- Origins of Life [↗](#)
- Skepticism [↗](#)
- The Git & Github Bootcamp [↗](#)

Training

Excellence Internship granted by the Université Grenoble Alpes

Laboratoire Jean Kuntzmann (Applied Mathematics & Informatics)

June – July 2022

Grenoble, France

Publications

P. Cousin, “Triangular Automata: The 256 Elementary Cellular Automata of the Two-Dimensional Plane,” Complex Systems, 33(3), 2024 pp. 253–276. doi.org/10.25088/ComplexSystems.33.3.253.

P. Cousin and A. Maignan, “Organic Structures Emerging From Bio-Inspired Graph-Rewriting Automata,” 2022 24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Hagenberg / Linz, Austria, 2022, pp. 293-296. doi.org/10.1109/SYNASC57785.2022.00053.

Projects

Triangular Automata

2023 – 2024

- Website [↗](#)
- Mathematica package [↗](#)
- OEIS entries [↗](#)
- YouTube channel [↗](#)

Graph-Rewriting Automata

2022

- Website [↗](#)
- Mathematica package [↗](#)
- Python package [↗](#)

Work Experience

Nurseryman

Creation of a professional activity in agriculture

2017 – 2020

Verrue, France

Founder & President

Association invested in circular economy for ecology and social fairness

2016 – 2018

Loudun, France

Logistics Coordinator

Agricultural training organization promoting sustainable practices

Aug. 2015 – July 2016

Grasse, France

Skills

Programming: Mathematica, Python, L^AT_EX, HTML/CSS, JavaScript, NetLogo, VS Code, GitHub

Arts: Music [↗](#), Video Production [↗](#)

Languages: French, English, Esperanto, Toki Pona, Italian, Spanish
native fluent intermediate elementary