

PAUL COUSIN

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Education

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

International Master's Degree in Physics Of Complex Systems

Sep. 2023 – Ongoing
Trieste – Turin, Italy & Paris, France

Univ. Grenoble Alpes & Univ. of North Carolina at Chapel Hill

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

Jan. 2021 – May 2023
Grenoble, France & Chapel Hill, USA

Lycée de la Communication

Advanced Audiovisual Technician's Certificate, Specialized in Editing

Sep. 2011 – May 2013
Metz, France

Self-Education | Certified Online Courses

2021 – 2024

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

Internship

Laboratoire Jean Kuntzmann (Applied Mathematics & Informatics)

Excellence Internship granted by the Université Grenoble Alpes

June – July 2022

Grenoble, France

Publications

P. Cousin, "Triangular Automata: The 256 Elementary Cellular Automata of the 2D Plane," *Complex Systems*, 33(2), 2024.

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: 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, VS Code, GitHub

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

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