Paul Cousin

✉ paul.cousin@etu.u-paris.fr   🌐 paulcousin.net   🆔 0000-0002-3866-7615   🐙 paulcousin

Education

International Master's Degree in Physics Of Complex Systems   **Sep. 2023 – Ongoing**
SISSA & ICTP & PoliTO & Paris Cité & Sorbonne & Paris Saclay   *Trieste – Turin, Italy & Paris, France*

International Bachelor's Degree in Physics (with Highest Honors)   **Jan. 2021 – May 2023**
Université Grenoble Alpes & University of North Carolina at Chapel Hill   *Grenoble, France & Chapel Hill, USA*

Diploma of Advanced Audiovisual Technician, Specialized in Editing   **Sep. 2011 – May 2013**
Lycée de la Communication   *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   **June – July 2022**
Laboratoire Jean Kuntzmann (Applied Mathematics & Informatics)   *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   **2017 – 2020**
Creation of a professional activity in agriculture   *Verrue, France*

Founder & President   **2016 – 2018**
Association invested in circular economy for ecology and social fairness   *Loudun, France*

Logistics Coordinator   **Aug. 2015 – July 2016**
Agricultural training organization promoting sustainable practices   *Grasse, France*

Skills

Programming: Mathematica, Python, LaTeX, HTML/CSS, JavaScript, NetLogo, VS Code, GitHub

Arts: Music 🔗, Video Production 🔗

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