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

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 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 𝒞
- Mathematica package 𝒞
- OEIS entries 𝒞
- YouTube channel 𝒞

Graph-Rewriting Automata   **2022**

- Website 𝒞
- Mathematica package 𝒞
- Python package 𝒞

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 𝒞, Video Production 𝒞

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