# Paul Cousin

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paulcousin

#### Education

International Master's Degree in Physics Of Complex Systems

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

Sep. 2023 - Ongoing

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

Advanced Audiovisual Technician's Certificate, Specialized in Editing

Sep. 2011 - May 2013

Lycée de la Communication

Metz, France

2021 - 2024

**Self-Education** | Certified Online Courses

• Learn Python 3 Course &

• Computation in Complex Systems &

• Machine Learning &

• Foundations & Applications of Humanities Analytics &

• Nonlinear Dynamics: Mathematical and Computational Approaches &

• Fractals and Scaling • Game Theory &

• Origins of Life &

• Introduction to Complexity &

- Skepticism &
- Introduction to Dynamical Systems and Chaos & • Introduction to Mathematical Thinking &
- The Git & Github Bootcamp &

- Learn JavaScript Course &

# Internship

# 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 €

• Mathematica Package &

• OEIS entries &

• YouTube channel &

#### Graph-Rewriting Automata

2022

• Website €

• Mathematica Package &

• Python Package &

## Work Experience

# Nurseryman

2017 - 2020Verrue, France

Creation of a professional activity in agriculture

2016 - 2018

#### Founder & President

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, English, Esperanto, Toki Pona, Italian, Spanish

nativefluent intermediate

elementary