# Paul Cousin

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## Education

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

**Univ. Grenoble Alpes & Univ. of North Carolina at Chapel Hill**　　　　**Jan. 2021 – May 2023**
*International Bachelor's Degree in Physics*　　　　*Grenoble, France & Chapel Hill, USA*

**Lycée de la Communication**　　　　**Sep. 2011 – May 2013**
*Advanced Audiovisual Technician's Certificate, Specialized in Editing*　　　　*Metz, France*

**Self-Education** | *Certified Online Courses*　　　　**2021 – 2024**

- Computation in Complex Systems 🔗
- Foundations & Applications of Humanities Analytics 🔗
- Fractals and Scaling 🔗
- 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)**　　　　**June – July 2022**
*Excellence Internship granted by the Université Grenoble Alpes*　　　　*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** | *Mathematica, HTML/CSS, Javascript*　　　　**2023 – 2024**
- Website 🔗
- Mathematica Package 🔗
- OEIS entries 🔗
- YouTube channel 🔗

**Graph-Rewriting Automata** | *Mathematica, Python, Jupyter Book*　　　　**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, VS Code, GitHub

**Arts**: Music 🔗, Video Production 🔗

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