

# PAUL COUSIN

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## Education

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**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*

**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**

Santa Fe Institute

- Introduction to Complexity [🔗](#)
- Introduction to Dynamical Systems and Chaos [🔗](#)
- Fractals and Scaling [🔗](#)
- Computation in Complex Systems [🔗](#)
- Foundations & Applications of Humanities Analytics [🔗](#)
- Nonlinear Dynamics: Mathematical and Computational Approaches [🔗](#)

Others

- Introduction to Mathematical Thinking (Stanford University) [🔗](#)
- Machine Learning (Stanford University) [🔗](#)
- Learn Python 3 Course (Codecademy) [🔗](#)
- Learn JavaScript Course (Codecademy) [🔗](#)
- The Git & Github Bootcamp (Udemy) [🔗](#)

## Internship

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**Laboratoire Jean Kuntzmann (Applied Mathematics & Informatics)**

*Excellence Internship granted by the Université Grenoble Alpes*

**June – July 2022**

*Grenoble, France*

## Publications

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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.

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

## Projects

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**Triangular Automata | Mathematica, HTML/CSS, Javascript**

**2023 – 2024**

- Triangular Automata Website [🔗](#)
- Triangular Automata Mathematica Package [🔗](#)

**Graph-Rewriting Automata | Mathematica, Python, Jupyter Book**

**2022**

- Graph-Rewriting Automata Website [🔗](#)
- GRA Python Package [🔗](#)
- GRA Mathematica Package [🔗](#)

## Work Experience

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**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

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**Programming:** Mathematica, Python, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS, JavaScript, VS Code, GitHub

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

**Languages:** French, English, Italian, Spanish, Esperanto  
*native      fluent      intermediate*