

# Chanattan Sok

École normale supérieure de Rennes, 11 avenue Robert Schuman, 35170, Bruz, France

[chanattan.sok@ens-rennes.fr](mailto:chanattan.sok@ens-rennes.fr) | [chanattan.github.io](https://github.com/chanattan) | Born on the 6<sup>th</sup> of August 2002

I am a second year master student in AI, MAS, and decision at [Sorbonne University](#), and at the same time a fourth-year student at [École normale supérieure](#) de Rennes.

I am seeking both a 6-month research internship starting February 2026, and a PhD position in decision-making (aid)/recsys/RL/CS-economics.

## Education

<b>Master's degree</b> in Algorithms, Artificial Intelligence, Interactions and Decision (AI2D) - Sorbonne University, Paris, France <i>Coursework on decision-making (multi-criteria; in uncertainty; models), coordination and game theory in MAS, MARL, social choice, mechanism design and auction theory.</i>	Sept 2025 - June 2026
<b>ENS Diploma</b> in Computer Science - École normale supérieure de Rennes, France	Aug 2022 - Aug 2026
<b>B.Sc. in Fundamentals of Computer Science</b> - ENS Rennes & Univ. Rennes, France	Aug 2022 – Aug 2023

## Research Positions

<b>Research assistant at LIP6 (MAS team)</b>   Sorbonne University, Paris, France. Supervised by <a href="#">Nicolas Maudet</a> , <a href="#">Aurélie Beynier</a> , and <a href="#">Arianna Novaro</a> . <i>(WIP) Investigated strategic manipulation within an iterative fair division model using a picking sequence, analyzing its convergence to equilibrium and the impact on social welfare.</i> <b>keywords:</b> mechanism design, vote, game theory	Sept 2025 - February 2025 <i>Report</i>
<b>Student researcher at Anticor (Datalab)</b>   Paris, France. Work with <a href="#">Julien Perez</a> , and Anticor lawyers. <i>Developed decision-making help architecture of multi-agent LLMs on user-given case studies: Mixture of Experts in law-specific reviewing with a final deliberative agent for decision.</i> <b>keywords:</b> LLM, deliberation	Aug 2025 - 202X
<b>Research assistant at LAMSADE and CES</b>   Paris Dauphine-PSL, CNRS, France. Supervised by <a href="#">Jérôme Lang</a> , <a href="#">Arianna Novaro</a> , and <a href="#">Florian Sikora</a> . <i>Developed a railway network tool to for fairness evaluation, with graph theory and social choice. Modelled some EU countries railway networks and proposed new fairness indices.</i> <b>keywords:</b> social choice, graph theory	May 2025 - August 2025 <a href="#">Website</a> , <a href="#">GitHub</a> , <a href="#">Article</a>
<b>Research fellow at City Science Lab HCU Hamburg, an MIT Media Lab collaboration and IRD in France</b>   Hamburg, Germany. Supervised by <a href="#">Arnaud Grignard</a> and <a href="#">Rico Herzog</a> . <i>Modelled an urban digital twin of Hamburg, focused on buildings CO2 footprints for policy decision-making help, in <a href="#">GAMA</a>. Collaboration with the ministry of Housing and Ecology.</i> <b>keywords:</b> MAS, simulation, urban digital twin	Feb 2025 - May 2025 <a href="#">Slides</a> , <a href="#">Article</a>
<b>Research assistant in the Multi-Robot Systems team</b>   <a href="#">Inria</a> & INSA Lyon, France. Supervised by <a href="#">Olivier Simonin</a> . <i>Developed a simulation platform for pedestrians' motion in Python and Mesa to simulate and resolve spatial conflicts between pedestrians based on social choice and game theory.</i> <b>keywords:</b> MAS, simulation, game theory, social choice, planning	Sept 2024 - Dec 2024 <a href="#">Article</a>
<b>Research assistant in Programming Languages</b>   Aarhus University, Denmark. Supervised by <a href="#">Magnus Madsen</a> . <i>Extended the functional-first Flix language with Java interoperability, in <a href="#">Scala</a>.</i>	May 2024 - Aug 2024 <a href="#">GitHub</a>

*Proposed Java types' representations and their reduction in type resolving.*

**keywords:** programming language design

**Research assistant in the *Data Management team*** | IRISA, Thales, France.

Supervised by **Laurent d'Orazio**.

Sept 2023 – May 2024

**Article**

*Proposed a study platform in Rust for performance and time comparisons of Rust-native and Wasm-based join standalone operations in serverless/serverful environments.*

**keywords:** Webassembly, Rust

**Student research fellow in data management/AI** | Anticor, ENS Rennes, France.

Work with **Julien Perez**, and Anticor lawyers.

Nov 2023 – May 2024

**Press Paper**

*Created law-related database scheme to help lawyers find public market frauds.*

**keywords:** mySQL, pandas, UX

**Research assistant at LIP6 in *Multi-Agent Systems*** | Sorbonne University, France.

Supervised by **Nicolas Maudet** and **Aurélie Beynier**.

May 2023 – July 2023

**GitLab, Report**

*Developed a generic n-choice deliberation simulation platform where agents negotiate, influence and vote with ranked preferences – based on Putnam's two-level game theory.*

**keywords:** MAS, simulation, deliberation, preferences, game theory

## Teaching & Mentoring

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| • <b>Referring tutor and founder of the computer science and maths tutoring for bachelor students</b> , ISTIC - Univ. Rennes, Rennes, France                                 | Sept 2023 - March 2024 |
| • <b>Guest lecturer on negotiating multi-agent systems</b> , invited by <b>Pr. Franz Kurfess</b> - Calpoly University, San Luis Obispo, California.                          | Jan 2024               |
| • <b>CPES (Cycle Pluridisciplinaire d'Enseignement Supérieur) science tutor in maths and computer science for first year bachelor students</b> - Lycée Châteaubriand, Rennes | Sept 2023 - March 2024 |
| • <b>High-school tutor in maths and computer science</b> - Rennes  | Sept 2023 - March 2024 |
| • <b>Assistant professor in mathematics and physics for middle-school students</b> - Collège Évariste Galois, Paris.   | Sept 2021 - March 2022 |
| • <b>Private teacher in computer science for students of all ages</b> - Independent.   | 2015 - 2024            |

## Additional Experiences and Activities

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|---|------------------------|
| <b>Co-president of the oenology club</b> , ENS Rennes   | Sept 2023 - March 2024 |
| <b>Founder of Tutorat ISTIC</b> , tutoring program for B.Sc. students, Univ. Rennes             | Sept 2023 - March 2024 |
| <b>Finalist in ENS Rennes eloquence competition 2023-2024</b> , ENS Rennes                      | 2023                   |
| <b>Winner of a local hackathon (Palm'Hackathon ISTIC 2023)</b> , Univ. Rennes                   | 2023                   |
| <b>Treasurer of RJMI Rennes 2023</b> - ENS Rennes   | Oct 2022 - March 2023  |
| <b>Participant of the <b>NEGOCLIM</b> project for Economics &amp; CS research</b> , MITI - CNRS | 2022 - 202X            |
| <b>Freelance developer</b> - Java Swing/FX, and Python software development, Online             | 2015 – 2019            |

## Languages

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French (native), English (TOEIC 855/990), German (notions)