

Chanattan Sok

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chanattan.sok@ens-rennes.fr | [chanattan.github.io](https://github.com/chanattan) | Born on the 6th 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

Master's degree 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
ENS Diploma in Computer Science - École normale supérieure de Rennes, France	Aug 2022 - Aug 2026
B.Sc. in Fundamentals of Computer Science - ENS Rennes & Univ. Rennes, France	Aug 2022 – Aug 2023

Research Positions

Research assistant at LIP6 (MAS team) Sorbonne University, Paris, France. Supervised by Nicolas Maudet , Aurélie Beynier , and Arianna Novaro . <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> keywords: mechanism design, vote, allocation, game theory	Sept 2025 - February 2025 <i>Report</i>
Student researcher at Anticor (Datalab) Paris, France. Work with Julien Perez , 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> keywords: LLM, deliberation	Aug 2025 - 202X
Research assistant at LAMSADE and CES Paris Dauphine-PSL, CNRS, France. Supervised by Jérôme Lang , Arianna Novaro , and Florian Sikora . <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> keywords: social choice, graph theory	May 2025 - August 2025 Website , GitHub , Article
Research fellow at City Science Lab HCU Hamburg, an MIT Media Lab collaboration and IRD in France Hamburg, Germany. Supervised by Arnaud Grignard and Rico Herzog . <i>Modelled an urban digital twin of Hamburg, focused on buildings CO2 footprints for policy decision-making help, in GAMA. Collaboration with the ministry of Housing and Ecology.</i> keywords: MAS, simulation, urban digital twin	Feb 2025 - May 2025 Slides , Article
Research assistant in the Multi-Robot Systems team Inria & INSA Lyon, France. Supervised by Olivier Simonin . <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> keywords: MAS, simulation, game theory, social choice, planning	Sept 2024 - Dec 2024 Article
Research assistant in Programming Languages Aarhus University, Denmark. Supervised by Magnus Madsen . <i>Extended the functional-first Flix language with Java interoperability, in Scala.</i>	May 2024 - Aug 2024 GitHub

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

Additional Experiences and Activities

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

Languages

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