

Chanattan Sok

École normale supérieure de Rennes, 11 avenue Robert Schuman, 35170, Bruz, France
chanattan.sok@ens-rennes.fr | chanattan.github.io | 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	Sept 2025 - June 2026
<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>	
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 Report
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 GAMMA. 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

• **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

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)