

# Chanattan Sok

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

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[linkedin.com/in/chanattan-sok](https://linkedin.com/in/chanattan-sok) | [github.com/chanattan](https://github.com/chanattan) | Born on the 6<sup>th</sup> of August 2002

M.Sc. student in computer science at École normale supérieure (ENS) de Rennes in France.

## News

- Submitted a paper at **JFSMA 2025!**  
*"Resolution and simulation of spatial conflicts between pedestrians based on social choice theory."*  
**Chanattan Sok**, Olivier Simonin

## Education

<b>ENS Diploma</b> in Computer Science - École normale supérieure de Rennes, Rennes, France	Aug 2022 - Aug 2026
<b>B.Sc. in Fundamentals of Computer Science</b> - École normale supérieure de Rennes & Univ Rennes, Rennes, France	Aug 2022 – Aug 2023
<b>2<sup>nd</sup> year of B.Sc. in Computer Science</b> - Sorbonne University (ex-UPMC), Paris, France	Sept 2021 - May 2022
<b>Preparatory classes to Grandes Écoles (CPGE)</b> - Lycée Albert Schweitzer, Raincy, France	Sept 2020 - May 2021

## Research Positions

<b>Research fellow at the City Science Lab HafenCity University Hamburg, an MIT Media Lab collaboration</b> - Hamburg, Germany <i>Research and work on climate impacts reflected on world-scale effects and urbanism caused by daily consumption and choices. The work involves the <b>GAMA</b> and <b>Connected Urban Twins</b> projects from <b>Research Institute for Development</b> and <b>City Science Lab</b>. My research is supervised by <b>Arnaud Grignard</b> and <b>Rico Herzog</b>.</i>	Feb 2025 - May 2025
<b>Research assistant in the Multi-Robot Systems/Human-Centered AI/AI for Humanity group (CHROMA)</b> - Inria Lyon & INSA Lyon, France <a href="https://github.com/chanattan/spatial_resolution">https://github.com/chanattan/spatial_resolution</a> <i>Resolution of spatial conflicts between pedestrians with agent-based modeling, game and social choice theories, supervised by <b>Olivier Simonin</b></i>	Sept 2024 - Dec 2024
<b>Research assistant in the Programming Languages group</b> - Aarhus University, Denmark <i>Software research on type inference and reduction of Java types, supervised by <b>Magnus Madsen</b></i>	May 2024 - Aug 2024
<b>Research assistant in the Data Management team (SHAMAN)</b> , IRISA, Univ Rennes, Thales group - Rennes & Lannion, France <a href="https://github.com/chanattan/Blossom">https://github.com/chanattan/Blossom</a> <i>Research project at ENS Rennes to initiate research perspectives with WebAssembly on data management, supervised by <b>Laurent d'Orazio</b></i>	Sept 2023 – May 2024
<b>Student research fellow in data management/UX/UI/AI</b> , ENS Rennes - Bruz, France <i>Provide computer science knowledge in collaboration with lawyers from Anticor (French association) and ENS Rennes: assist lawyers in the detection of frauds in France public markets, supervised by <b>Julien Perez</b></i>	Nov 2023 – May 2024
<b>Research assistant in the Multi-Agent Systems team (MAS)</b> , Sorbonne	May 2022 – July 2022

University, LIP6, CNRS, CES - Paris, France

*Study of Earnest's model (2008) based on Putnam's two-level game theory, supervised by [Nicolas Maudet](#) and [Aurélie Beynier](#) ([gitlab.lip6.fr/sok/tweakable\\_model](https://gitlab.lip6.fr/sok/tweakable_model))*

## Teaching

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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 in 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  
*CPES is an intensive 3-year program to prepare for the most competitive entrances for the best ranked schools in France.*
- **High-school tutor in general sciences (maths, computer science and physics)** - 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** - Independent. 2015 - 2024

## Publications

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**WebAssembly Serverless Join: A Study of its Application** July 2024  
*Chanattan Sok*, Laurent d'Orazio, Reyhan Tekin, Dimitri Tombroff  
SSDBM 2024, Rennes, France  
[10.1145/3676288.3676305](https://doi.org/10.1145/3676288.3676305)

## Projects

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Here is a list of projects I have been involved in, as a member or participant.

**NEGOCLIM project (from summer 2023)**

[sites.google.com/view/negoclim](https://sites.google.com/view/negoclim)

**An ENS Rennes - Anticor Law-clinic project (2023 - 2024)**

[github.com/chanattan](https://github.com/chanattan)

## 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 bachelor students in computer-science/engineering, Univ Rennes (ISTIC) Sept 2023 - March 2024
- **Finalist in an eloquence competition (Concours d'éloquence ENS Rennes)**, ENS Rennes 2023
- **Winner of a local hackathon (Palm'Hackathon ISTIC 2023)**, Univ Rennes - ISTIC 2023
- **Treasurer of RJMI Rennes 2023 (Rendez-vous des Jeunes Mathématiciennes et Informaticiennes)** - ENS Rennes Oct 2022 - March 2023
- **Freelance developer** - Online 2015 - 2019

## Technologies

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**Languages & more:** Java 7/8, Python, Scala 2, C, C++, SQL, OCaml, Rust, Coq, GAMS

## Languages

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French (native), English (proficient), German (notions)