

# Julien Soulé

1st year PhD student working in Multi-Agent Systems  
for Cyberdefense.

[julien.soule@univ-grenoble-alpes.fr](mailto:julien.soule@univ-grenoble-alpes.fr)

+33 6 77 63 12 13

35 Rue Mathieu de la Drôme, 26000 Valence



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## PROFESSIONAL EXPERIENCE

### Thales (La Ruche), Rennes — Research Engineer

DEC 2021 - JUN 2022

- Study on multi-agent aspects and integration within “La Ruche” context in order to explore modeling cyber environments and anomaly detections.

### Atos, Toulouse — Software Engineer

AUG 2020 - SEP 2021

- Continuation of *ISIS* project developments with more interactions with the *CNES*.

### Atos, Toulouse — Software Engineer Internship

JAN 2020 - JUL 2020

- Worked on development of the *ISIS* project for the *CNES* (*Centre National d'Etude Spatiale*).
- Product line to handle launching and monitoring of new satellites from *Control and Command* centers.
- **Tools:** Python / Bash, KVM, Grafana, Django...

### SQLI, Toulouse — Mid Software Engineer Internship

MAY 2019 - JUL 2019

- *Airbus Helicopter* projects within different aspects: security, maintenance, development...

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## ADDITIONAL EXPERIENCES

### BattleCode (Sopra Steria), Rennes

Meet several coding challenges in teams

MAR 2017

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## EDUCATION

### Institute of Engineering Univ. Grenoble Alpes

PhD - “On Organization of a Cyberdefence Multi-Agent System (AICA)”

JUL 2022 - PRESENT

- **Keywords:** Multi-Agent Systems, Cyberdefense, Multi-Agent Reinforcement Learning, Software Architecture...

### Ecole de Technologie Supérieure, Montréal (Canada)

One study semester in Computer Engineering

JAN 2019 - MAY 2019

### Institut National des Sciences Appliquées (INSA), Rennes

Master's degree in Computer Engineering

2015 - 2020

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## PROJECTS

### [Multi Cyber Agent Simulator \(MCAS\)](#) — Methodological tools for PhD

DEC 2022

Created a Proof-Of-Concept project aiming to simulate (and emulate) cyber-defender and cyber-attacker agents “fighting” in host nodes in a network. Main interest is to reproduce real known attacks in a realistic way and learn from the assessment of several cyberdefense multi-agent system organizations against these.

**Tools:** Flask, Angular, PettingZoo, CybORG, HTML/CSS...

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## PUBLICATIONS

### National Conferences

- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. De l'Organisation des Systèmes Multi-Agents de Cyberdefense. RESSI 2023.
- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. De l'Organisation des Systèmes Multi-Agents de Cyberdefense. RJCIA 2023.
- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. De l'Organisation des Systèmes Multi-Agents de Cyberdefense. JFSMA 2023.

### International Conferences

- Soulé, J., Jamont, J.-P., Occello, M., Théron, P., & Traonouez, L.-M. Towards a Multi-Agent Simulation of Cyber-attackers and Cyber-defenders Battles. IEEE SMC 2023.

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## RESPONSIBILITIES

### Treasurer of the *Autonomous Intelligent Cyberdefence Agent International Work Group (AICA IWG)*

MAY 2023 - PRESENT

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## PRESENTATIONS

### Talk for the *CybAIR* NATO Chair. *École de l'air et de l'espace*

MAR 2023

- Presentation of my PhD topic and discussions

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## TEACHING EXPERIENCES

### Teaching Assistant, Valence

JAN 2023 - MAR 2023

- Basics of system administration

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## SKILLS

### French

- Native

### English

- Professional (910 TOEIC)