# DR. REMY CHAPUT

## Ph.D. in Computer Science (Artificial Intelligence)

I am an expert in Artificial Intelligence, focusing on ethical issues (AI for good, AI for people, Explainable AI, …). My favorite languages are Python and Java, with the Object-Oriented Programming and Functional Programming paradigms, but I also have knowledge in several other languages, such as R, Prolog, JS.

## 💼 PROFESSIONAL EXPERIENCE

**Now | 2024**

### Associate Professor
#### CPE Lyon
📍 Lyon, France

Teacher at the CPE engineering school. Responsibilities include:

- Organizing courses, handling external teachers.
- Preparing courses' syllabus, lectures, and practical works.
- Supervising and grading students' internships.
- Research on AI and Ethics-related subjects.

**2024 | 2023**

### Post-doctorate researcher
#### LIRIS
📍 Lyon, France

Member of the ACCELER-AI ANR project. Responsibilities include:

- Reviewing state of the art in Multi-Agent and Multi-Objective Reinforcement Learning.
- Publishing scientific articles; communicating in conferences.
- Designing and running experiments.
- Mentoring a Ph.D. student.
- Teaching at Licence and Master level.

`Python3` `Reinforcement Learning` `Ethical Artificial Intelligence` `Multi-Agent System`

**2023**

### Research engineer
#### LIRIS
📍 Lyon, France

Research engineer in the Ethics.AI project. Responsibilities include:

- Implementation of an open-source simulator of ethical Smart Grid.
- Publishing scientific articles; participating to seminaries.
- Reporting on the project's results; developing a website.

`Python3` `RL` `Ethical Artificial Intelligence` `MAS`

**2022 | 2019**

### Ph.D. student
#### LIRIS
📍 Lyon, France

Ph.D. student in the Ethics.AI project. Responsibilities include:

- Organizing project meetings; preparing the agenda, taking the minutes.
- Reviewing the state of the art on Machine Ethics; positioning our approach.
- Developing the use-case and implementation of our approach.
- Publishing scientific articles; communicating in conferences.
- Mentoring 5x research interns (Master 2) and 1x intern (Master 1).
- Teaching courses at the University, at Licence and Master levels.

`Python3` `RL` `Ethical Artificial Intelligence` `MAS` `Neural-Symbolic Learning` `xAI`

## CONTACT
- 🏠 rchaput.github.io
- 🐙 rchaput
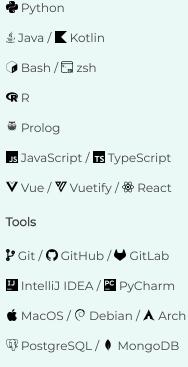- 💼 rchaput
- ✉️ rchaput.pro@pm.me

## Languages

**French**: Native

**English**: Proficient

## Skills

### Programming languages

🐍 Python

☕ Java / 🅺 Kotlin

🐚 Bash / zsh

Ⓡ R

🦉 Prolog

JS JavaScript / TS TypeScript

V Vue / W Vuetify / ⚛️ React

### Tools

🔀 Git / 🐙 GitHub / 🦊 GitLab

IJ IntelliJ IDEA / PC PyCharm

 MacOS / 🌀 Debian / 🅰 Arch

🐘 PostgreSQL / 🍃 MongoDB

See the latest version on
rchaput.github.io/cv/industry/cv.pdf

**2019** ● **Research internship**

LIRIS ◉ Lyon, France

Research internship in a lab. Responsibilities include:

- Reviewing state of the art; proposing solutions.
- Implementing proof-of-concepts learning algorithms.

Python3 · RL · Ethical Artificial Intelligence · MAS

**2017** ● **Internship**

PlaySQL (Requirement Yogi) ◉ Lyon, France

Worked as a full-stack developer in a startup, applying Agile methodology within a small team. Responsibilities include:

- Extending existing functionalities on plugins for Atlassian Confluence.
- Interacting with users and fixing bugs.
- Adding new functionalities, from conception to implementation.

Java · jQuery · Agile · Atlassian Confluence · JIRA

## 🖥 PROJECTS

See all my projects on GitHub or my website.

● **ethical-smart-grid**

Python simulator of a Smart Grid for ethical behaviours
Python · Reinforcement Learning · Simulator · Smart Grid · Machine Ethics

● **acronyms**

Quarto extension to use acronyms in computational documents
Lua · Quarto · Computational Documents

● **knitrdrawio**

R package to automatize diagrams in computational documents
R · R Markdown · Knitr · Drawio · Reproducibility

● **xdg-prefs**

Python Qt app to select the default app for each file format
Python · Qt · Linux · XDG

## 🎓 EDUCATION

**2022 | 2019** ● **Doctorate in Computer Science**

Université Claude Bernard Lyon 1 ◉ Lyon, France

**2019 | 2017** ● **Master in Computer Science, specialty Artificial Intelligence**

Université Claude Bernard Lyon 1 ◉ Lyon, France

**2017 | 2014** ● **Bachelor in Computer Science**

Université Claude Bernard Lyon 1 ◉ Lyon, France