

# Timon Deschamps

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## Education

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### PhD

Artificial Intelligence

2023 - 2026 (*expected*)

LIRIS, Claude Bernard Lyon 1 University

### Graduate School of Engineering

Computer Science

2020 - 2023

Polytechnic School of the University of Nantes, France

### Two-year university preparatory cycle

Mathematics, Computer Science option

2018 - 2020

University of Tours, France

## Publications

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2024 - [Multi-objective decision making workshop \(MODeM\) @ ECAI](#), oral presentation ([paper](#))

**Timon Deschamps**, Rémy Chaput, Laëtitia Matignon. Multi-objective reinforcement learning: an ethical perspective.

2024 - [Rencontre des jeunes chercheurs en intelligence artificielle \(RJCIA\) @ PFIA](#), oral presentation ([paper](#))

**Timon Deschamps**, Rémy Chaput, Laëtitia Matignon. Multi-objective reinforcement learning: an ethical perspective.

2023 - [IEEE Transactions on Visualization and Computer Graphics \(TVCG\)](#) ([website](#), [paper](#))

Qi Yang, Joel Jung, **Timon Deschamps**, Xiaozhong Xu, Shan Liu. TDMD: A Database for Dynamic Color Mesh Subjective and Objective Quality Explorations. Co-authored during an internship conducted at Tencent Media Lab.

## Experience

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### LIRIS, Claude Bernard Lyon 1 University

PhD student

Lyon, France

Nov 2023 - Nov 2026 (*expected*)

Title: Multi-objective multi-agent reinforcement learning for the co-construction of ethical behaviours ([summary](#)).

Supervisor: Laëtitia Matignon

### Tencent

Research Scientist Intern

Remote

Feb 2023 - Aug 2023

- Worked on Tencent Media Lab's response to the call for proposals on Static Polygonal Mesh Coding by AOMedia.
- Developed a prediction and displacement-based scheme for efficient compression with BD-Rate gains of up to 30%.
- Created a suite of Python data processing tools used by the team to streamline and speed up experiments.

### Airbus

Machine Learning Engineer Intern

Bangalore, India

Jun 2022 - Sep 2022

- Used reinforcement learning for multi-criterion wing shape optimisation using deep learning-based surrogate models.
- Applied various machine learning and custom deep learning models to predict drag on antenna fairings.
- Introduced AI to the engineering team and created an interactive dashboard to speed up antenna fairing design.

### Artefakt-AI / Polytech Nantes

ML Engineer / Project Manager (Part-time industrial project)

Nantes, France

Sep 2021 - May 2022

- Implemented data augmentation methods on a dental x-ray dataset using deep autoencoder-based inpainting.

### Laboratory of Digital Sciences of Nantes (LS2N) / Talend

Software Engineer Intern

Nantes, France

Jun 2021 - Aug 2021

- Designed an automatic benchmark generation procedure using Bayesian Networks to test the accuracy of an outlier detection algorithm working on mixed tabular data.

### Laboratory of Fundamental and Applied Computer Science of Tours (LIFAT)

Machine Learning Engineer Intern

Tours, France

Jun 2019 - Jul 2019

- Developed an interactive drawing recognition program based on convolutional neural networks (Tensorflow, Tkinter).
- Created resources to educate a diverse audience on artificial intelligence and neural networks.
- Presented the results at Tours' 2019 science fair to hundreds of visitors.

## Teaching

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2025 - [LIFAMI](#) (Applications of mathematics and computer science) - Lyon 1 University  
36h: practical sessions for first year Bachelors students

2024 - [LIFAPI](#) (Introduction to imperative programming) - Lyon 1 University  
24h: practical sessions for first year Bachelors students

References available upon request.