# JOËL ROMAN KY

**Machine learning Researcher - Data scientist**

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## EXPERIENCE

### Researcher

**Orange Innovation Labs**

🗓 Nov 2021 – Nov 2024      ♀ Lannion, France

– Data science research project for enhancing the Quality of Experience (QoE) for low-latency applications within mobile and WiFi networks.

– Literature review on research topics: 5G networks, low-latency applications, representation learning, unsupervised learning.

– Implementation of novel deep learning techniques for anomaly detection and diagnosis of QoE degradation issues on low-latency applications.

– **Tools: Pytorch, Scikit-learn, Numpy, Pandas, Matplotlib, GCP, Vertex AI, Linux, 5G, WiFi**

### Machine Learning Research Intern

**Vitesco Technologies**

🗓 Apr 2021 – Sept 2021      ♀ Toulouse, France

– Research internship in academic collaboration with ANITI, IMT and LAPLACE on PEM fuel cell modeling and Remaining Useful Life (RUL) estimation of fuel cells

– **Tools: Pytorch, Scikit-learn, Numpy, Pandas, Matplotlib, AWS**

### Research Project in AI

**Groupe SII**

🗓 Nov 2020 – Mar 2021      ♀ Toulouse, France

– Design of algorithms for face detection from a drone, positioning using distance estimation methods and Kalman filters, and the development of an assistance chatbot.

– **Tools: Python, TensorFlow, Unreal Engine, AirSim**

### R&D Deep Learning Intern

**INSPI**

🗓 June 2020 – Sept 2020      ♀ Toulouse, France

– Distributed training and deployment of deep learning models for indoor image segmentation models.

– **Tools : Python, Tensorflow, PyTorch, Caffe, AWS, Flask**

## EDUCATION

### Doctor of Philosophy in Computer Science

**Lorraine University**

🗓 Oct 2021 – Now      ♀ Nancy, France

### Master of Science in Computer Science

**University Toulouse 3 Paul Sabatier**

🗓 Sept 2020 – Sept 2021      ♀ Toulouse, France

### Engineer in Computer Science and Telecommunications

**Toulouse INP-ENSEEIHT**

🗓 Sept 2018 – Sept 2021      ♀ Toulouse,France

## RESEARCH INTERESTS

- Anomaly detection and AI security
- Machine Learning (Time series, Clustering, Meta-learning, Computer Vision)
- Representation learning (Unsupervised learning, Self-supervised learning)
- Explainable AI (XAI), Causality

## PUBLICATIONS

More details on Google Scholar

## COMPUTER SKILLS

- Programming

  Python | Java | R | Matlab | LaTeX | SQL | C/C++ | Markdown | HTML

- Framework

  GCP | AWS | Docker | Git | Spark

## STRENGTHS

Team Work | Critical thinking | Autonomy | Rigor | Communication | Project management

## AWARDS

– Public Prize at Orange competition **Ma thèse en 3mn**

– Prize at Challenge MetaDL at NeurIPS 2022 Competition track.

– Best Poster Presentation award at 10th TMA PhD school, Enschede, Netherlands 2022.

## LANGUAGES

**French** ●●●●●
**English** ●●●●○
**German** ●●●○○
**Japanese** ●●○○○

## HOBBIES

E-Gaming | Piano | Volley-Ball | Badminton | Ping Pong