Kanvaly Fadiga

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EDUCATION

TÉLÉCOM PARISTECH
Artificial Intelligence
Master of Science
2020 - 2022 | Paris, France
Graduate engineering schools

ECOLE POLYTECHNIQUE
Image, Vision & Learning
Master of Science
2017-2021 | Paris, France
Graduate engineering schools.
France's top ranking university for high-level scientific training.

COURSEWORK

GRADUATE
Télécom Paris
Logics and Symbolic AI
Natural Language Processing
Advanced Statistics
Convex Optimization
Metaheuristic (Hard Optimization)
Navigation & Control in Robotics

École polytechnique
Applied Mathematics & Statistics
Advanced Machine Learning
Advanced Computer Vision
Advanced Reinforcement Learning
Computational geometry
Computer Graphics
Design and Analysis of Algorithms

SKILLS

PROGRAMMING
Compiled Language:
• C++***, Java**
Scriptable Language:
• Python***, R*, Javascript**

***: fluent, **: pratice, *: notion

INTERNET OF THINGS
Arduino • Raspberry Pi • Node.js
• Laser Cutting • 3D Printing

AR/VR/3D
Unity • ARCore • Blender

LANGUAGES
French: Mother Tongue
English: Fluent

EXPERIENCE

YOKAI | Freelance - Data Scientist
July 2020 | Paris, France
Implementation of a standalone Python module for face identity analysis.

BENTLEY SYSTEMS | Research Intern - Computer Vision
April 2020 - August 2020 | Paris, France
Working on leveraging Augmented Reality capabilities of mobile devices to ease the acquisition and 3D reconstruction of complex environments

SMARTMEUP | Intern - Machine Learning
June 2019 – Aug. 2019 | Grenoble, France
Working on translation of a RGB face image to a physically realistic IR face image using Generative Adversarial Networks (GAN).

X-ROBOT | Vice president - Robotic association
Dec 2018 – June 2019 | Ecole polytechnique
Organizing events and training courses in Robotics.

RESEARCH & PROJECTS

CAUSALITY DETECTION | Causal Inference
Oct. 2020 – Now | Telecom Paristech
The goal of this project is to detect the cause of anomaly in Smart Home. To do this, the system will develop a causal model of its own functioning based on the correlations it has been able to observe. The idea is to co-evolve the causal model and the observation of problematic phenomena. The study will use the Bayes relation and Minimum Complexity Measures (MCM).

OPTIMAL SENSOR PLACEMENT | Optimization
Oct. 2020 – Dec 2020 | Télécom Paristech
Exploration of different stochastic optimization methods on the problem of sensor placement.

ALPHA QUORIDOR | Reinforcement Learning
Jan 2020 – May 2020 | Ecole polytechnique
we build an agent that master Quoridor Board Game. Quoridor is not so famous game and there is not a lot of research about it. It has a state-space complexity similar to Chess with a higher game-tree complexity.

LINK PREDICTION | Machine Learning, Graph
Oct. 2019 – Dec 2019 | École polytechnique
My task was to predict links between pages in a subgraph of the French webgraph. From the original subgraph, edges have been deleted at random. Given a set of candidate edges, our job was to predict which ones appeared in the original subgraph.

AWARDS

2020	3rd/12	DGA Challenge | Distributed Intelligence - Drone Swarm
2017-2020		Côte d'Ivoire Government Excellence Scholarship

LICENCES & CERTIFICATIONS

Coursera	Neural Networks and Deep Learning
Coursera	Improving Deep Neural Networks: Tuning, Regularization and Optimization