



Alexandre Heuillet

Computer Science PhD student at Paris-Saclay University (IBISC lab). Visiting Student at MIT.



25 yo



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Languages

French: Mother tongue

English: Professionnal level (TOEIC 990 / IELTS 7.5)

Japanese: Beginner level

Skills

Languages: Python, C, C++, C#, Shell Script, Java, Javascript, HTML, CSS, PHP

Machine Learning: PyTorch, Keras, TensorFlow, DNNs, GANs, CNNs, Reinforcement Learning, Neural Architecture Search, AutoML

Multimedia: Unity

Web Frameworks: Symfony 4, Wordpress, Bootstrap 4, VueJS, Django

Databases: MySQL, SQLite, MongoDB

Education

Since October 2020

Paris-Saclay University

Evry, France

Computer Science PhD on Automatic Deep Learning with a focus on Neural Architecture Search. Joint work with members of MIT Mechatronics Research Lab. Graduation expected in 2023.

2017 - 2020

ENSEIRB-MATMECA

Bordeaux, France

Software engineer student in computer science curriculum (Master), specialized in Artificial Intelligence.

2015 - 2017

CPBx

Bordeaux, France

French intense math and physics preparation curriculum before entering a High Engineering School.

2012 - 2015

Lycée des Graves

Bordeaux, France

High School diploma (bacchalaureate) obtained with high honors.

Experience

01/2023 - 05/2023

Massachusetts Institute of Technology

Cambridge, MA, USA

Visiting Student at MIT Mechatronics Research Lab.

Since 2020

Paris-Saclay University

Evry, France

Teaching Computer Science (algorithmics, Python programming) and AI (Deep Learning, Reinforcement Learning) courses for international master's students (teaching language: English).

02/2020 - 07/2020

Groupe Renault

Paris, France

Research intern in the ADAS department. Creation of a GAN-based Python application that generates photorealistic street videos from segmented images in order to test onboard cameras.

06/2019 - 08/2019

Kyushu University

Fukuoka, Japan

Research intern in an AI and Robotics laboratory. Implementation of a Microsoft HoloLens app dedicated to help training nursing staff to provide care to elderly people.

04/2018 - 04/2019

Aquitaine Électronique Informatique

Bordeaux, France

Director of the information systems for ENSEIRB-MATMECA's Junior-Enterprise. Maintenance and improvement of software and websites, technical assistance and computer consulting, team management.

06/2018 - 07/2018

Omnitech Security

Mérignac, France

Intern. Unitary and integration tests conduction, redaction of PHP scripts to remote control domotic equipment.

Publications

2022

Alexandre Heuillet, Hedi Tabia, Hichem Arioui and Kamal Youcef-Toumi. "D-DARTS: Distributed Differentiable Architecture Search". *arXiv preprint*. Submitted to PRL.

2022

Alexandre Heuillet, Fabien Couthouis and Natalia Diaz Rodriguez. "Collective eXplainable AI: Explaining Cooperative Strategies and Agent Contribution in Multiagent Reinforcement Learning with Shapley Values". *Computational Intelligence Magazine*, IEEE

2021

Alexandre Heuillet, Fabien Couthouis and Natalia Diaz Rodriguez. "Explainability in Reinforcement Learning". *Knowledge-based Systems*, Elsevier