Robin Camarasa

Ph.D. Student in Medical Imaging

June 4th, 1996

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Car Driving License

Languages

French (Mother Tongue)

English (TOEIC : 840)

Spanish (Proficient)

Dutch (B1 level)

Skills

AI Tools (Torch, Scikit-learn, Keras)

Math Languages (C, R, Python, Matlab)

Object Oriented (Java, Python, PHP)

Functional Programming (CAML, scala)

Scripting (Shell, Python)

Linux (Debian, Arch, Redhat)

Web Back-end (Django, Symfony)

Web Front-end (html, css, JS, Vue)

Git (Github, Gitlab)

Docker

Hobbies

Cuisine - Swimming - Golf

As a Ph.D. student at Erasmus Medical Center,
I have a multidisciplinary approach of sciences.
The focus of my research is the uncertainties and the interpretability
of Biomedical Imaging Machine Learning models

Academia

2022 — Differentiable Boundary Point Extraction for Weakly Supervised Star-shaped Object Segmentation — *Rotterdam*
Accepted at the MIDL 2022 conference.

2021 — A Quantitative Comparison of Epistemic Uncertainty Maps Applied to Multi-Class Segmentation — *Rotterdam*
Special issue of UNSURE workshop of MICCAI 2020 conference published in MELBA journal.

2020 — Quantitative Comparison of Monte-Carlo Dropout Uncertainty Measures for Multi-class Segmentation — *Rotterdam*
Long oral at UNSURE workshop of MICCAI 2020 conference.
http://doi.org/10.1007/978-3-030-60365-6_4

2020 — Uncertainty-Based Segmentation of Myocardial Infarction Areas on Cardiac MR Images — *Rotterdam*
Publication at STACOM workshop of MICCAI 2020 conference.
http://doi.org/10.1007/978-3-030-68107-4_40

2018 — Participation to the WMH Segmentation Challenge — *Rotterdam*
Part of coroflo team (7th out of 55). White Matter Hyperintensity segmentation via recurrent neural networks ensemble.

2018 — Participation to the MRBrainS Challenge — *Rotterdam*
Part of coroflo team (11th out of 23). 8-label segmentation of the Brain via recurrent neural networks ensemble.

Education

2019-2023 — Erasmus MC - Ph.D. student — *Rotterdam*
Ph.D. project focused on uncertainty and interpretability of Convolutional Neural Networks, applied to cardiovascular diseases.

2016-2019 — Mines de Saint-Etienne - ICM Engineering degree — *Saint-Etienne*
Major in Data Science and Computer Science (Data Science, Web Programming, Big Data, Image Analysis, Parallel Computing, Artificial Intelligence)

2014-2016 — Lycée Fermat - Classes Préparatoires — *Toulouse*
2-year undergraduate intensive course in Physics, Algebra, Mathematics Analysis and Theoretical Computer Science

Experiences

2021- — Erasmus MC - Teacher — *Rotterdam*
Teaching Python to clinical technology master students.

2021- — Erasmus MC - Scientific Programmer — *Rotterdam*
Part of the administation team of a GPU cluster. In charge of the administration of available modules

2020- — Erasmus MC - GPU cluster administration — *Rotterdam*
Part of the administation team of a GPU cluster. In charge of the administration of available modules

2019 — DataGenius - Internship — *Lyon*
A 6-month Data Sciences internship covering various type projects from Business Intelligence to theoretical Machine Learning (Spiking Neural Networks) for customers

2018 — Erasmus MC - Internship — *Rotterdam*
A 3-month internship. Application to 2 MRI Segmentation International Challenges