Robin Camarasa

Ph.D. Student in Medical Imaging

June 4th, 1996

Rotterdam, The Netherlands

robin.camarasa.github.io

r.camarasa@erasmusmc.nl

bit.ly/3OBi8zV

bit.ly/3q2I1iF

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

Cooking - 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
Runner-up for best paper at and long oral 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