

Robin Camarasa

Ph.D. Student in
Medical Imaging



June 4th, 1996



Rotterdam, The Netherlands



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bit.ly/30Bi8zV



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