

# Robin Camarasa



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Rotterdam, The Netherlands



[robin.camarasa@pm.me](mailto:robin.camarasa@pm.me)



[robincamarasa.github.io](https://github.com/robincamarasa)



[bit.ly/3q2I1iF](https://bit.ly/3q2I1iF)



[bit.ly/30Bi8zV](https://bit.ly/30Bi8zV)



Car Driving License

## Languages

French (Native)

English (Fluent)

Spanish (Proficient)

Dutch (Intermediate)

## Skills

AI Tools (Torch, Scikit-learn, Keras)

Scientific Prog. (Python, Matlab, R)

Object Oriented (Java, Python)

Scripting (Shell, Python)

Functional Prog. (OCaml, Haskell)

Linux (Debian, Arch, Redhat)

Git (Github, Gitlab)

Containers (Docker, Singularity)

Database (SQL)

Low level (C, Rust)

Web (Django, Symfony, VueJS)

## Hobbies

Swimming - Reading - DIY

Finishing a Ph.D. in Artificial Intelligence and Medical Imaging, I have a broad interest in (computer) science and its application.

## Experiences

- 2019- Erasmus MC - Ph.D. student Rotterdam  
Ph.D. project focused on uncertainty assessment and interpretability of Convolutional Neural Networks, applied to cardiovascular diseases. (contacts: [marleen.debruijne@erasmusmc.nl](mailto:marleen.debruijne@erasmusmc.nl), [d.bos@erasmusmc.nl](mailto:d.bos@erasmusmc.nl))
- 2021-2023 Erasmus MC - Scientific Programmer Rotterdam  
Teaching programming good practice to the members of the group (code versioning, test driven development, continuous integration)(contact: [marleen.debruijne@erasmusmc.nl](mailto:marleen.debruijne@erasmusmc.nl))
- 2021-2023 Erasmus MC - Teacher Rotterdam  
Teaching Python and Git for the master Clinical Technology of the TU Delft. (contact: [t.vanwalsum@erasmusmc.nl](mailto:t.vanwalsum@erasmusmc.nl))
- 2020-2023 Erasmus MC - GPU cluster administration Rotterdam  
Part of the administration team of a GPU cluster (50 active users). In charge of the administration of available modules (contact: [m.koek@erasmusmc.nl](mailto:m.koek@erasmusmc.nl))
- 2019 DataGenius - Internship Lyon  
A 6-month Data Sciences internship covering a wide range of projects from Business Intelligence to theoretical Machine Learning (Spiking Neural Networks) for customers. (contact: [samy@edenai.co](mailto:samy@edenai.co))
- 2018 Erasmus MC - Internship Rotterdam  
A 3-month internship. Application to two MRI Segmentation International Challenges (coroflo team MRBrainS: **11<sup>th</sup> out of 23**; coroflo team WMH: **7<sup>th</sup> out of 55**) (contact [floriandubost1@gmail.com](mailto:floriandubost1@gmail.com))

## Education

- 2016-2019 Mines de Saint-Etienne - ICM Engineering degree Saint-Etienne  
Master of science majoring in data science and computer science in a top French **engineering school** (ranking **10<sup>th</sup> out of 170**). Courses in data science, web programming, IoT, big data, image analysis, artificial intelligence.
- 2014-2016 Lycée Fermat - Classes Préparatoires Toulouse  
2-year undergraduate intensive courses in a top **preparatory class** in France (ranking **11<sup>th</sup> out of 142**). Course in Algebra, Mathematics Analysis, Physics, and Theoretical Computer Science

## Main academic output

- 2023 Nested star-shaped objects segmentation using diameter annotations Rotterdam  
Publication in **Medical Image Analysis** (impact factor: 10.9, top journal in the field)
- 2022 Differentiable Boundary Point Extraction for Weakly Supervised Star-shaped Object Segmentation Rotterdam  
Runner-up for best paper and oral presentation at **MIDL 2022** conference.
- 2020-2021 Quantitative Comparison of Monte-Carlo Dropout Uncertainty Measures for Multi-class Segmentation Rotterdam  
**Oral presentation** at UNSURE workshop of MICCAI 2020 conference, followed by a journal publication in **MELBA**.
- 2020 Uncertainty-Based Segmentation of Myocardial Infarction Areas on Cardiac MR Images Rotterdam  
Publication at **STACOM workshop** of MICCAI 2020 conference, followed by a publication in **Medical Image Analysis**