



# Maxence Boels

MSc Computer Vision, Robotics and Machine Learning  
University of Surrey, UK

"I believe in learning new things every day, or making machines learn them."

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## SELECTED PROJECTS

- Biomedical Image Segmentation** | Deep Learning November 20  
• Trained and validated neural networks for medical image segmentation of lung lobes, vessels, liver, ...  
*Keywords: 3D U-Net, CNN, Data Augmentation, CT scans, multiclass, DICOM.*
- Breast Cancer Prediction** | Deep Learning and Computer Vision August 20  
• Predicted malignancy in breast cancer screenings before biopsy.  
*Keywords: ResNet, CNN, Transfer Learning, Data Augmentation and Registration, X-rays.*
- Visual Search** | Computer Vision and Image Processing January 20  
• Developed an image classifier able to search for similar images in a large data set.  
*Keywords: PCA, Edge and Feature Detection, SIFT, Descriptors, Histogram of Oriented Gradients.*

## WORK EXPERIENCE

- 05/2021 – present **PhD Candidate** • School of Biomedical Engineering and Imaging Sciences  
King's College London
- 09/2020 – 12/2020 **Deep Learning Engineer** • Trained neural networks to extract clinical features from medical images.  
Radiomics, Liège • Built predictive models for diagnosis, prognosis and treatment evaluation.
- 08/2018 – 03/2019 **Data Scientist Intern** • Developed advanced analytics scripts for Analytical Audits.  
Deloitte, Paris • Implemented an end-to-end Data Integration Tool with SQL Server and Tableau.

## ACADEMIC QUALIFICATIONS

- 10/2019 – 09/2020 **MSc in Computer Vision, Robotics and Machine Learning**, University of Surrey, Cum Laude  
Electrical and Electronics Engineering, Faculty Ranked 2nd in the UK (The Guardian University Guide '20).  
*Course Highlights: Computer Vision, Robotics, AI Programming, Deep Learning, IoT, Advanced Signal Processing, Satellite Remote Sensing, Speech Recognition, Image Processing, Pattern Recognition.*  
*Thesis: "Predicting malignancy in breast cancer using Deep Learning" (Python).*
- 08/2017 – 07/2019 **MSc in Data Science and Advanced Analytics**, University Nova IMS of Lisbon, Cum Laude  
*Course Highlights: Data Mining, Business Intelligence, Operational Research, Big Data, Machine Learning, Evolutionary Programming, Statistics for Data Science, Deep Learning.*
- 08/2013 – 06/2017 **Bachelor in Economics and Management**, ICHEC Brussels Management School  
*Course Highlights: Economics, Finance, Statistics, Econometrics, Accounting, Computer Science, Physics, Management, Mathematics.*

## SKILL SET

### Stack:

Linux, Git, TensorFlow, PyTorch, Docker, OpenCV, ...

### Certifications and Specializations:

Biomedical Imaging in Python + 10 others, Data Camp  
Introduction to Medical Imaging, Udemy  
AI for Medicine Specialization, deeplearning.ai

### Other Projects:

Bayesian Machine Learning, ...

### Work In Progress:

Writing articles about my projects and experiences.  
TensorFlow Professional Certificate, deeplearning.ai  
Neuroscience for Neuroimaging, Johns Hopkins  
Covid-19 Lung CT Lesion Segm., Grand-Challenge.org

## PROGRAMMING LANGUAGES

Python	●●●●●	advanced
Matlab	●●●●●	advanced
SQL	●●●●	proficient
C++	●●	familiar
R	●●	familiar

## LANGUAGES

English	●●●●	fluent (C1+)
French	●●●●●	native
Dutch	●●●●	fluent (C1+)
Spanish	●●●	limited proficiency (B2)
Portuguese	●	basics (A2)

## SOFT SKILLS

Growth mindset	Online courses, self-motivated.
Open-minded	Discover new people, places.
Team spirit	Chief scouts, group sports/activities.