ALEXANDRE BOUYSSOUX

PhD Student — Institut Pasteur — VitaDX
5 rue Elisa Lemonnier, 75012 Paris
+33 6 11 84 36 97 — alexandre.bouyssoux@pasteur.fr

WORK EXPERIENCE

Institut Pasteur (Biological Image Analysis unit) - VitaDX 2019 - Present
PhD Student

· Acquisition and Analysis of 3D optical slides for early bladder cancer detection. Project conducted under Jean-Christophe Olivo-Marin supervision, in collaboration with and supported by VitaDX.

General Electric Healthcare march 2018 - august 2018
Intern

· Research internship : supervised learning using component trees for detection and classification of medical objects in CBCT images. (Python, Linux)

DxOMark Image Lab september 2016 - may 2017
Intern

· Image quality evaluation tools for mobile phones. (Python, Git, Scrum)
· Image classification for automated photography sorting. (Python, Matlab, OpenCV)

EDUCATION

Institut Pasteur, Paris *May 2019 - Present*
Thesis project

Acquisition and Analysis of 3D optical slides for early bladder cancer detection. The project explores how 3D cytologies of urothelial cells can help the detection of early bladder cancer, using image processing and machine learning methods.

Institut d'Optique Graduate School, Palaiseau *september 2014 - february 2018*
Master degree of Engineering.

Image and Signal Processing, Computer vision, Pattern recognition, Physics, Informatics, Optics.

TECHNICAL SKILLS

Languages: French (Native speaker) — English (TOEIC 965) — Spanish (B2)
Software & Tools: Python — Tensorflow (Keras) — Matlab — Git — Linux — LateX