



Alexandre Filiot

French nationality | Lille

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IN BRIEF

I'm an **R&D engineer** with strong expertise in deep learning, computer vision and its application to bioimages. At Owkin, I'm focusing on the development and validation of **AI-guided diagnostics tools**. I'm also responsible for building **foundation models for histology images**. I'm dedicated, attentive and eager to improve patients care at my own level.

INTERESTS

Deep learning • Computer vision • Computational pathology • ML & Biostatistics for medical research

PUBLICATIONS

My publications are available online at [🌐 afiliot.github.io/publications](https://afiliot.github.io/publications)

SKILLS

ML STACK

Advanced
DL libraries (PyTorch, Tensorflow) • MLFlow • DVC • Docker • Hydra • CI / CD

CODING SKILLS

Advanced
Python • R • Bash • \LaTeX • Git

Familiar
Matlab • SQL • Java • Bokeh

LANGUAGES

English:
Fluent - TOEIC 950/990

ABOUT ME

I'm happiest when I'm with my family and friends, going for outdoor activities such as hiking or climbing. I've been doing a lot of photography. I'm also a fearless competitor when it comes to board games.

EDUCATION

ECOLE NORMALE SUPERIEURE PARIS-SACLAY | MSc

2018-2019 | Cachan (France) | Github MSc in Mathematics, Data Science and Machine Learning (MSc MVA)

ENSAE PARIS | DUAL DEGREE

2017-2019 | Saclay (France) | Github Data Science specialisation : Statistics and Machine Learning

ECOLE CENTRALE DE MARSEILLE (ECM) | GRANDE ÉCOLE

2015-2017 | Marseille
Top french engineering school

WORK EXPERIENCE

OWKIN | DATA SCIENTIST

September 2022 - now | Paris

Computational pathology and deep learning | ML stack, \LaTeX , Notions
• Co-development and validation of AI-guided diagnostic tools for digital pathology (Rlaps Risk BC, MSIntuit CRC in collaboration with MSD) • Self-supervised learning and co-development of foundation models for histology • Collaborating with pharma companies on strategic research projects • Actively monitoring latest research in ML & computer vision, contributing to internal ML libraries

INSERM | INRIA @ ENDOMIC | DATA SCIENTIST

December 2021 - August 2022 | Lille

Bioimages analysis and deep learning | ML stack, \LaTeX
• Focus on digital pathology and immunofluorescence • Omics analysis and multi-omics integration • Writing and reviewing of scientific publications • Supervising internships

LILLE UNIVERSITY HOSPITAL @ INCLUDE | DATA SCIENTIST

November 2019 - December 2021 | Lille | Gitlab

Bioimages analysis and deep learning | ML for medical research

• Computational pathology • Statistical design and implementation of medical research studies (clustering, survival analysis, time series, regression models, etc.) • Federated learning with INRIA MAGNET (winners of 2021 *bac-à-sable CNIL*) • Writing of protocols and scientific publications • Maintenance of a GPU computing cluster • Project management (supervision of another data scientist and interns, getting up and monitoring partnerships, writing calls for projects)

GUERBET | RESEARCH INTERN

June-November 2019 | Paris

Medical image reconstruction | Python, Bash, Git, \LaTeX

• Intensity enhancement on low contrast injected brain MRI (GAN) • Brain tumours segmentation as part of BraTS challenge (V-NET) • Cloud computing (Azure ML)