Alexandre Filiot

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IN BRIEF

I'm an **R&D engineer** with strong expertise in deep learning, **self-supervised learning**, **computer vision** and its application to **histology**. At Owkin, I have been working on building our **foundation models**. I'm also actively involved in the development and validation of **AI-guided diagnostics tools**. I'm dedicated, attentive and eager to improve patients care at my own level.

INTERESTS

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

PUBLICATIONS

My publications are available online at
afiliot.github.io/publications

SKILLS

ML STACK

Advanced
DL librairies (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

EDUCATION

ECOLE NORMALE SUPERIEURE PARIS-SACLAY | MSc

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

ENSAE PARIS | Grande École

2017-2019 | Paris | 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
• Self-supervised learning and development of foundation models for histology • Co-development and validation of AI-guided diagnostic tools for digital pathology (RIaps Risk BC, MSIntuit CRC in collaboration with MSD) • 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 • Scientific writing • Technical supervision

LILLE UNIVERSITY HOSPITAL @ INCLUDE | Data scientist

November 2019 - December 2021 | Lille (France)
Bioimages analysis and deep learning | ML stack, biostatistics, LaTeX
• Computational pathology • Statistical design and implementation of medical research studies (clustering, survival analysis, time series, regression models) • Federated learning with INRIA MAGNET • Scientific writing (study protocols, publications) • Maintenance of a GPU cluster • Project management (supervision of data scientists, interns, partnerships follow-up)

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)