



Alexandre Filiot

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IN BRIEF

I build **foundation models** for pathology: **Phikon**, **Phikon-v2** and **H0-mini** at Owkin, **Phaet** & **Mascaret** at Waiv — openly released and used as reference feature extractors across the field. Research lead on foundation models, core contributor on our **diagnostic products**, lead scientist on **pharma collaborations**.

PUBLICATIONS

639 citations • H-index 10 • 21M+ model downloads (August 2026)

Phaet & Mascaret — Robustifying pathology foundation models via fine-tuning
arXiv 2026 • First author

H0-mini — Distilling foundation models for digital pathology
MICCAI 2025 • First author • 55+ citations

Phikon-v2 — A large and public feature extractor for biomarker prediction
arXiv 2024 • First author • 160+ citations

Phikon — Scaling self-supervised learning with masked image modeling
medRxiv 2023 • First author • 280+ citations

Co-author on two **Nature Communications** papers (2025) • Full list online

SELECTED PRESENTATIONS

ECDP 2026 — Tumor-agnostic IHC cell detection

USCAP 2026 — MSI detection across gastric, endometrial and biliary cancers

ESMO AI & Digital Oncology 2025 —
Lightweight IHC foundation model (33P);
cell-level HER2 quantification (8P)

MICCAI 2025 — Foundation model distillation

OPEN SOURCE

Histoboard — Community dashboard unifying 12 benchmarks, 48 pathology FMs and 400+ tasks
Creator and maintainer • 2026

HistoSSLscaling — Phikon reference implementation
170+ GitHub stars

Plismbench — Robustness benchmark for pathology foundation models
MICCAI 2025 • 20+ GitHub stars

EDUCATION

ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY

2018-2019 | MSc | Mathematics, Vision, Learning

ENSAE PARIS

2017-2019 | Grande École | Statistics and Machine Learning

WORK EXPERIENCE

WAIV (EX-OWKIN DX) | SENIOR ML SCIENTIST

March 2026 - now | Paris (France)

Research lead on foundation models. I released Phaet and Mascaret, robustified models that gain +23% robustness and +43% across combined benchmarks over ten architectures without trading away downstream performance (Mascaret now ranks 1st on PathoROB among public models) and built Histoboard, the dashboard the community uses to compare them.

Computer vision expert. Beyond model research, I am core contributor on our diagnostic products (RlapsRisk BC, MSIntuit Suite), from development through international clinical validation, and lead scientist on pharma partnerships around IHC, work spanning most of computational pathology, from multiple instance learning to cell and tissue segmentation.

Scientific leadership. I regularly present our research at international conferences (USCAP, ECDP, ESMO AI & Digital Oncology, MICCAI) and peer-reviewed journals. I also supervise research internships and mentor junior scientists. I keep track of the field (research and industry) and advise on strategic decisions.

OWKIN | SENIOR ML SCIENTIST

September 2022 - March 2026 | Paris (France)

Computer vision, self-supervised learning, deep learning

Built Phikon, one of the first foundation model for pathology; then Phikon-v2 (ViT-L, 450M images). Further published and released H0-mini (MICCAI 2025), with state-of-the-art robustness-performance trade-off • Co-development and validation of AI-guided diagnostics (RlapsRisk BC and MSIntuit Suite) • Biomarker discovery for pharma

INSERM & INRIA | DATA SCIENTIST

December 2021 - August 2022 | Lille (France)

Computer vision and deep learning

Digital pathology and immunofluorescence imaging • Multi-omics integration • Technical supervision

LILLE UNIVERSITY HOSPITAL | DATA SCIENTIST

November 2019 - December 2021 | Lille (France)

Computer vision and biostatistics

Computational pathology • Statistical design of medical research studies (clustering, survival analysis, time series) • Federated learning