



SIMON THOMINE

PH.D

Research Engineer at VitaDX

CONTACT

+33695411684

simonthomine66@gmail.com

33 Rue Remy Dumoncel,
Paris 75014, France

 [LinkedIn](#)

 [Google Scholar](#)

 [Github](#)

 [Portfolio](#)

EDUCATION

2021-2024

DEEP LEARNING PHD

University of Technology of Troyes
Unsupervised anomaly detection (CV)

2017-2020

ENGINEERING DEGREE

Télécom Saint-Etienne, Saint-Etienne
Image application development

2014-2016

PREPARATORY CLASS

Lycée Pierre-Gilles De Gennes, Paris
MPSI-PSI

LANGUAGES

- French (Fluent)
- English (Proficient)
- Spanish (Basic)

INTERESTS

- Personal [teaching.projects](#)
- Artificial Intelligence
- Sport (climbing and trail running)
- Miscellaneous Reading
- Sport and Health Science
- Podcasts (Lex Fridman...)

WORK EXPERIENCE

● Research Enginner

OCTOBER 2024-PRESENT

VitaDX

- Medical image analysis with deep learning for bladder cancer diagnosis
- Multiple Instance Learning, Self-Supervised Pathology Vision Models, Cells of interest detection on Whole Slide Images

● ph.D student and research engineer

MAY-SEPTEMBER 2024

University of Technology of Troyes, Troyes

- Victim detection at disaster sites using drones and deep learning

● ph.D student and research engineer

2021-APRIL 2024

University of Technology of Troyes and Aquilae, Rosières-près-Troyes

- ph.D project on unsupervised anomaly detection : knowledge distillation, contrastive training, VLM, transfer learning.
- Computer vision research and engineering projects : package tracking in a warehouse, fall detection, people/vehicle counting, intrusion detection, railroad crossing supervision, multi-camera person tracking.

● Internship

2020

Aquilae, Rosières-près-Troyes

- Implementation of a camera calibration algorithm.
- Vehicle re-identification and tracking, neural network (CNN) training.

● Internship

2019

Préfecture de police de Paris, Paris 13

- Vehicle make/model recognition based on a convolutional neural network (CNN) architecture.

SKILLS

THEORITICAL

Self-Supervised Learning, Knowledge Distillation, Vision Transformer, Multiple Instance Learning, LLM/VLM, Prompt Engineering, Application Development

SOFTWARE

Python, Pytorch, Lightning, Transformers, Torchvision, Zarr, Git, Docker, OpenCV, Numpy, Pillow, Timm, Scikit-learn, Scikit-image, TensorRT

EDUCATION

Several teaching experiences at University of Technology of Troyes and ESTP.

ADDITIONAL QUALIFICATIONS

Deep learning Specialization Coursera : [Certificate](#)

AI for medicine Specialization Coursera : [Certificate](#)

Stanford Online Youtube course : [CS109](#), [CS236](#)

Participation in the territorial final of the MT180 competition : [Youtube Live](#)