SIMON THOMINE

PH.D

Research Engineer at VitaDX

CONTACT

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in LinkedIn

Google Scholar

Github

Portfolio

EDUCATION

2017-2020
ENGINEERING DEGREE
Télécom Saint-Etienne, Saint-Etienne
Specialty : 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
- Scientific Culture
- Miscallaneous Reading
- Sport and Health Science
- Podcasts (Lex Fridman, Peter Abbeel)

WORK EXPERIENCE

● **Research Enginner**   OCTOBER 2024-PRESENT
VitaDX
- Medical image analysis with deep learning for bladder cancer diagnosis

● **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, unsupervised anomaly detection, people/vehicle counting, drones vision for solar panel and agriculture, intrusion detection, railroad crossing supervision, multi-camera person tracking.

● **Internship**   2020
Aquilae, Rosières-près-Troyes
- Implementation of a camera calibration algorithm.
- Computer vision projects : Vehicle re-identification and tracking, neural network (CNN) training.

● **Internship**   2019
Préfécture de police de Paris, Paris 13
- Vehicle make/model recognition based on a convolutional neural network (CNN) architecture.

SKILLS

THEORITICAL
Convolutional Neural Networks, Knowledge Distillation, Vision Transformer, Object Tracking, LLM/VLM, Application Development, Classical Computer Vision

SOFTWARE
Python, C++, Pytorch, Transformers, Torchvision, OpenCV, Numpy, Pillow, Timm, Scikit-learn, Scikit-image, QT, TensorRT, Git, Docker

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