Tim Lebailly

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EDUCATION

KU Leuven — Leuven, Belgium
PhD in Machine Learning & Computer Vision; supervised by Tinne Tuytelaars — *Apr 2021 – May 2025*

Swiss Federal Institute of Technology Lausanne (EPFL) — Lausanne, Switzerland
*Master of Science in Data Science; **GPA: 5.75/6.0**; ranked **2nd** out of 94 students* — *Sep 2018 – Mar 2021*

KU Leuven — Leuven, Belgium
Bachelor of Science in Computer Science and Electrical Engineering; Cum Laude — *Sep 2015 – Jun 2018*

EXPERIENCE

Meta (previously Facebook) — Seattle Area, United States
Research Scientist Intern — *May 2024 – Nov 2024*
- Conducted research and developed novel multi-modal representation learning methods.

KU Leuven — Leuven, Belgium
Teaching Assistant — *Sep 2021 – Jun 2024*
- Lead computer vision expert for a class of around 100 students.
- Role includes: teaching, advising students, grading and material preparation.

Oracle Labs — Zurich, Switzerland
Machine Learning Research Intern — *Sep 2020 – March 2021*
- Developed state-of-the-art algorithms along implementation in production-ready codebase.
- This research output was part of my master thesis which obtained a perfect grading (6.0/6.0) at EPFL and led to a **US patent** (US20230199026A1).

EPFL CVLAB — Lausanne, Switzerland
Research Intern — *Feb 2020 – June 2020*
- Conceived end-to-end human motion prediction pipeline beating previous state-of-the-art models which led to publication: Lebailly et al., Motion Prediction Using Temporal Inception Module, ACCV 2020.

IBM — Brussels, Belgium
Machine Learning Intern — *Jul 2019 – Sep 2019*
- Prototyped multiple machine learning models for bank loan default prediction based on a biased dataset.
- Identified non-fair outcome for women and reduced bias by 95% using diverse proprietary algorithms.

SELECTED PUBLICATIONS (SEE GOOGLE SCHOLAR FOR MORE)

- CrIBo: Self-Supervised Learning via Cross-Image Object-Level Bootstrapping.
  T. Lebailly*, T. Stegmüller*, B. Bozorgtabar, JP. Thiran and T. Tuytelaars (* denotes equal contribution)
  ICLR 2024 (spotlight - top 5%): International Conference on Learning Representations

- A Simple Framework for Open-Vocabulary Zero-Shot Segmentation.
  T. Stegmüller*, **T. Lebailly***, N. Dukic, B. Bozorgtabar, T. Tuytelaars and JP. Thiran (* denotes equal contribution)
  ICLR 2025: International Conference on Learning Representations

- Adaptive Similarity Bootstrapping for Self-Distillation based Representation Learning.
  T. Lebailly*, T. Stegmüller*, B. Bozorgtabar, JP. Thiran and T. Tuytelaars (* denotes equal contribution)
  ICCV 2023: IEEE/CVF International Conference on Computer Vision

- CrOC: Cross-View Online Clustering for Dense Visual Representation Learning.
  T. Stegmüller*, **T. Lebailly***, B. Bozorgtabar, T. Tuytelaars and JP. Thiran (* denotes equal contribution)
  CVPR 2023: IEEE/CVF Conference on Computer Vision and Pattern Recognition

SKILLS

- **Programming languages**: Python, C, CUDA, Java, MATLAB.
- **Technologies**: PyTorch, Numpy, Scikit-learn, Scipy, Pandas, Matplotlib, HPC, Slurm, Git, Linux, Containerization.
- **Languages**: French (Native), English (Fluent), Dutch (Fluent).

AWARDS

- 1.1M GPU-hour grant on LUMI (3rd fastest supercomputer in the world) via CSCS (Switzerland) and EuroCC Belgium.
- SEMP Scholarship: Swiss-European Mobility Programme.
- 6th place at Physics Olympiad (National).