Tim Lebailly

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EDUCATION

KU LEUVEN
PhD in Computer Vision
Apr 2021 - Apr 2025 | Leuven, BE
Supervisor: Tinne Tuytelaars

EPFL
MSc in Data Science
Sep 2018 - Mar 2021 | Lausanne, CH
GPA: 5.75/6.0, ranked 2nd out of 94

KU LEUVEN
BSc in Computer science & Electrical engineering
Sep 2015 - Jun 2018 | Leuven, BE
Cum Laude

INFO

Nationalities: and
Website:// **timlebailly.com**
Github:// **tileb1**
LinkedIn:// **Tim Lebailly**
Google Scholar:// **Tim Lebailly**

SKILLS

PROGRAMMING
Over 5000 lines:
Python • Java • C • Matlab
Good knowledge:
SQL • Git • CUDA
Frameworks:
PyTorch • NumPy • Pandas • OpenCV
Scikit-Learn • PySpark • XGBoost

LANGUAGES
French: Native
English: Fluent
Dutch: Fluent

VOLUNTARY WORK

Collectively raised more than 220 000 EUR for humanitarian projects and planted more than 2000 trees in Tamil Nadu, India to fight against pollution.

AWARDS

SEMP Scholarship: Swiss-European Mobility Programme
6th place at Physics Olympiad (National)

EXPERIENCE

ORACLE LABS | Research Assistant
Sep 2020 – March 2021 | Zurich, CH
- Devised an explainable self-supervised graph learning model tailored for invalid traffic detection.
- This work was done as part of my master thesis (grade: 6.0/6.0) and a US patent application is currently being filed.

EPFL CVLAB | Research Intern
Feb 2020 – June 2020 | Lausanne, CH
- My research focused on human motion prediction in Pascal Fua's Computer Vision Lab.
- Conceived end-to-end trainable pipeline beating previous state of the art models which lead to publication at ACCV 2020.

IBM | Machine Learning Intern
Jul 2019 - Sep 2019 | Brussels, BE
- Prototyped multiple machine learning models for bank loan default prediction based on a biased dataset in Python.
- Identified non-fair outcome for women and reduced bias by 95% using multiple algorithms included in the IBM aif360 python package.
- Developed sandboxed social media backend and chatbot integration (Node.js) used in privacy awareness game for kids aged 12-16.

KU LEUVEN | Summer Intern
Jul 2018 – Aug 2018 | Leuven, BE
- 2 out of 100 students selected for this position based on academic results. We were the first and only team in 3 years to complete the **drone challenge**.
- Conceived state space models for the stabilization and autonomous navigation of quadcopters in Matlab.
- Implemented the algorithms on embedded processors in C to fly a physical autonomous drone.

G-HITECH | Project engineer & Team leader
Sep 2017 – Aug 2018 | Louvain, BE
- Led team of 5 towards the development of "Energy-box" containing battery racks and DC-AC inverter designed for rural use in Africa.
- Fully self built off-grid solution allowing better access to electricity to local population.
- Spent 3 weeks at the University of Western Cape in South-Africa for integrating the "Energy-box" with local partners.
- Our "Energy-box" project was documented in an **article** in one of the biggest Belgian newspaper.

PUBLICATIONS

(1) **Paper** | **Code**: T. Lebailly, S. Kiciroglu, M. Salzmann, P. Fua, and W. Wang. Motion Prediction using Temporal Inception Module. ACCV, 2020.

(2) **Paper** | **Code**: K.K. Patel, A. Mehrotra, and T. Lebailly. Reproducibility report: A resizable mini batch gradient descent based on a multi-armed bandit. ICLR Reproducibility Challenge, 2019.