

Tim Lebailly

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EDUCATION

EPFL

MSC IN DATA SCIENCE

Sep 2018 - Mar 2021 | Lausanne, CH

GPA: 5.67/6.0

150 ECTS / 120 ECTS done

KU LEUVEN

BSC IN ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Sep 2015 - Jun 2018 | Leuven, BE

Cum Laude

INFO

Nationalities:  and 

Website:// timlebailly.com

Github:// [tileb1](https://github.com/tileb1)

LinkedIn:// [Tim Lebailly](#)

SELECTED COURSES

Advanced Algorithms

Machine Learning

Deep Learning

High Performance Computing

Computer Vision

SKILLS

PROGRAMMING

Over 5000 lines:

Python • Java • C • Matlab

Good knowledge:

SQL • Git • CUDA • Node.js

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

- Working on a fast and scalable Graph Learning framework (GraphMLlib) as part of Parallel Graph AnalytiX group (PGX).
- Conceiving add fraud detection system based on Unsupervised Graph Machine Learning.

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.

EPFL ROCKET TEAM | SOFTWARE ENGINEER

Sep 2018 – June 2019 | Lausanne, CH

- Award for Technical Excellence received at the at Spaceport America Cup 2019.
- Responsible for data measurement and analysis as part of the avionics sub-team.
- Implemented CAN-bus communication for 5 independent custom PCB's using C resulting in a more robust system.

KU LEUVEN | SUMMER INTERN

Jul 2018 – Aug 2018 | Leuven, BE

- Selected for this position based on academic results.
- 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 a Belgian **newspaper article**.

SELECTED PROJECT

NEURAL NETWORK STOCHASTIC OPTIMIZER | READ MORE

Submitted work as part of the ICLR reproducibility challenge 2019 with implementation in PyTorch. This optimizer combines SGD and Multi-Armed Bandit to choose the size of the mini-batch used during the optimization allowing fast descent rates when possible and variance reduction when needed.