

# VINCENT BALLE

## COMPUTER SCIENCE ENGINEER

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### EDUCATION

#### École Polytechnique Fédérale de Lausanne (EPFL)

Master in Computer Science, Minor in Management and Entrepreneurship.  
Bachelor in Computer Science.

Lausanne, Switzerland  
09.2013 - 06.2019

#### University of Illinois at Urbana-Champaign (UIUC)

Exchange Program in Computer Science.

Champaign IL, USA  
08.2015 - 06.2016

#### Lycée Massena

High school diploma with highest honors.

Nice, France  
09.2010 - 06.2013

### EXPERIENCE

#### Fōda, Co-founder and CDO

Fōda is an app that suggests the perfect bar or restaurant to have a good time effortlessly considering who you're going with, you tastes, cravings, habits and you network's best findings.

Paris, France  
02.2019 - Present

#### AXA - REV/Research team

Definition of adversarial examples in the context of tabular data along with LowProFool, an algorithm to craft them. Paper published at NeurIPS 2019 Workshop. <https://arxiv.org/abs/1911.03274>

Paris, France  
02.2019 - 09.2019

#### Gencores, Founding team, Harvard Innovation Lab

Data mining. Data visualization.  
Worked with generative adversarial networks.

Boston MA, USA  
06.2018 - 10.2018

#### Junior Entreprise EPFL

Project Manager and head of the IT Department in a team of 34 volunteer students managing more than 175 projects annually with a turnover of 450 k€.

Lausanne, Switzerland  
02.2017 - 08.2018

#### Amadeus

Building new forecast models for plane tickets bookings.  
Prototype development.

Sophia Antipolis, France  
06.2016 - 12.2016

#### École Polytechnique Fédérale de Lausanne (EPFL)

Teaching Assistant in different courses.  
Helping students get a better grasp of the material. Grading exams.

Lausanne, Switzerland  
02.2015 - 06.2018

### PROJECTS

#### Steganographic system using ML (EPFL, MLO Lab)

- Design of a steganographic system to enable two users to exchange encrypted messages without an adversary detecting that such an exchange is taking place.
- Linguistic stegosystem based on a Long ShortTerm Memory (LSTM) neural network.

Lausanne, Switzerland  
09.2017 - 02.2018

#### Road Segmentation using ML (EPFL, Kaggle rank best 10%)

- Classification of pixels from satellite images into roads or background.
- Convolutional neural network inspired from biomedical image segmentation U-Net.

Lausanne, Switzerland  
09.2017 - 02.2018

### SKILLS

#### Programming

Python (scikit-learn, PyTorch, NumPy, SciPy, pandas, matplotlib),  
SQL, Java, C/C++, Swift/Objective-C, Scala, LaTeX, HTML/CSS/JS, Laravel.

#### Software

Git, Tableau, Microsoft Office, Adobe Suite.

#### Languages

Bilingual in french and english, german basis.

### AWARDS AND ACHIEVEMENTS

#### Associative

- Best European Junior Enterprise, 2018.
- Best Swiss Junior Enterprise, 2017.

#### Sporting events

- Paris Marathon finisher, 2017.
- Alpes Maritimes Marathon finisher, 2017.

### REFERENCES

Dr. Schinz (EPFL) - Prof. Davison (EPFL) - Prof. Marinov (UIUC) - Prof. Argyraki (EPFL) - M. Cimolino (Amadeus) - M. Thierry (Gencores)  
All the recommendation letters are available on demand