

Dimitri Lozeve

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Work experience

- 2020–present **Sysnav**: Research Engineer and Project Manager
- Development of medical endpoints for neuromuscular disease diagnosis using inertial sensors
 - Work with physicians and pharmaceutical companies
- 2018–2020 **Mindsay**: R&D Data Scientist and Engineering Manager
- **Natural Language Processing** and **Reinforcement Learning** for Chatbots
 - Management of the R&D team (3 data scientists) and of all research projects
 - Entirely responsible with the CTO for the **patents** strategy in Europe and abroad
 - Attended a 6-day training programme for young managers (SpineUp by Ignition Program)
- Mar.–Aug. 2017 **Sysnav**: Real-time geolocalization algorithm on an embedded device
- **Mathematical modelling** of the human walk, statistical methods for trajectory reconstruction
 - Step detection using artificial intelligence on inertial sensors data
 - *Award: Best Research Internship 2017*, from École polytechnique
- Jun.–Aug. 2016 Natixis London Branch, Global Infrastructure and Projects: Intern Analyst
- Origination and execution of **project finance** transactions
 - Long-term projections of energy and financial time series data
- 2014–2015 French Engineering Corps: Army officer
- Operation Sangaris: Military intervention in the Central African Republic
- **Instructor** for new recruits for 4 months (around 30 soldiers)
 - Participation in an **intelligence gathering** mission in the Northeastern part of the country
 - *French military decorations*: Overseas Medal, National Defence Medal

Education

- 2017–2018 **University of Oxford**: MSc in Statistical Science
- Applied and computational statistics, statistical machine learning and statistical inference
- 2014–2017 **École polytechnique**
- Majors in Applied Mathematics, Operations Research, Data Science, and Computer Science
 - *Distinctions*: Outstanding Investment, Outstanding Leadership
- 2012–2014 Lycée privé Sainte-Geneviève, Versailles: Preparatory classes to French *Grandes Écoles*

Scientific projects

- 2018 **Master's thesis**: Topological Data Analysis of time-dependent networks
- With Prof. Heather Harrington, Prof. Mason Porter (UCLA), and Prof. Renaud Lambiotte
 - Persistent homology for machine learning applications: vectorization and kernel methods
 - Temporal partitioning of graphs (generative models and real-world social networks)
- 2016–2017 Community Detection in Social Networks
- Research project with the Microsoft-INRIA joint center, with Prof. Laurent Massoulié
 - Comparison of the performance of state-of-the-art algorithms (theory and implementations)
 - Application to large-scale, real-world social networks
- 2015–2016 SERB X-CubeSat II program: a nano-satellite dedicated to Sun-Earth relationship
- Co-authored a **SPIE Proceedings article** on the project's technical specifications

Languages & skills

- Languages *French*: mother tongue, *English*: C2/C1-level (European Framework of Reference)
- Computer skills *Languages*: Python, Julia, R, C, SQL, Haskell, Lisp
- Sports *Fencing*: vice-president of the 2016 X-SYSTRA International Fencing Challenge; 29th in the 2016 sabre French Student Championships, *Scuba-diving*: CMAS ★ ★ ★, 150 dives
- Interests Travel (Europe, Vietnam, Indonesia, Philippines, Mexico), Music (piano), Electronics, History