

# Dimitri LOZEVE

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## WORK EXPERIENCE

- Oct. 2018–present **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
  - Offshore windfarms, hydroelectric dams, and a biomass power plant in northeastern England
- 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)
  - Security Officer during the building of a Bailey bridge in Bangui
  - 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** (top French Engineering School)
- 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 [SPIE Proceedings article](#) on the project's technical specifications
- 2013–2014 [Convergence of Markov Chains and Queuing Theory](#): algebraic theory and simulations

## 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; 29<sup>th</sup> in the 2016 sabre French Student Championships, *Scuba-diving*: CMAS \*\*\*, 150 dives
- Interests Travel (Europe, Vietnam, Indonesia, Philippines, Mexico), Music (piano), Electronics, History