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

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 Topological Data Analysis of time-dependent networks
— Master's thesis (Mathematical Institute, Oxford), with Prof. Heather Harrington (Oxford), Prof. Mason Porter (UCLA), and Prof. Renaud Lambiotte (Oxford)
— 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; 29th in the 2016 sabre French Student Championships, *Scuba-diving:* CMAS ⋆ ⋆ ⋆, 150 dives

Interests Travel (Europe, Vietnam, Indonesia, Philippines, Mexico), Music (piano), Electronics, History