

Application for a PhD in Operations Research	
Education	
École Polytechnique - Cycle Ingénieur Polytechnicien Third year, One of France's leading universities in engineering	Palaiseau, France 2017-Present
Master's level program in Applied Math and Computer Science, GPA: 3.8/4.0, Major GPA: 3.94/4.0 Relative Coursework: Operations Research - Game Theory - Statistics - Algorithm Design and Analysis - Monte Carlo Methods and Stochastic processes	
Preparatory program - Lycée Pierre de Fermat MPSI-MP*/Computer Science, GPA 4.0/4.0	Toulouse, France 2015–2017
A 2-year program leading to competitive entrance examinations to the Grandes Ecoles for scientific studies	
Lycée Ange Bleu Baccalaureat in Sciences awarded with highest honors	El Jadida, Morocco 2015
Project/Research Work	
Studying the bit complexity of logarithmically-homogeneous barriers Interior Point Methods Proved that entropic barrier Interior Point Methods are not strongly polynomial Research Project under the supervision of Profs Stephane GAUBERT, Xavier ALLAMIGEON	Palaiseau, France 2019-Ongoing
Studying of the robustness of spectral clustering Implemented rare events simulation techniques to estimate the robustness of spectral clustering Experimental project under the supervision of Prof. Emmanuel GOBET	Palaiseau, France 2019
Estimating the stability number of stochastic power law graphs using copositive programming relaxations Investigating on potentially tractable exact relaxations using sum-of-squares Research Project under the supervision of Prof. Georgina HALL	Paris, France 2019–Ongoing
Determining the attention/focus state of students during class Implemented a statistical decision model which outputs the focus state of students in a classroom Research Project under the supervision of Prof. Jérôme SACKUR	Palaiseau, France 2018–2019
Internship Experience.	
Novade - Data scientist intern Built a RNN model that predicts future workload and accordignly allocates human resources	Singapore Summer 2019
Apprentis d'Auteuil - Middle school Educator Worked in a team of educators and overhauled the structure of a middle school for unprivileged students	Meudon, France 2017-2018
Teaching experience	
Ecole Polytechnique Féminine - Teacher Assistant in University Assisted the professor in lectures and taught the recitation class Topics: Advanced measure theory, Topology, Probability, Real Analysis	Paris, France 2017–2019
National Moroccan Olympiads - Tutor Participated in designing and teaching the current Moroccan olympiad training curriculum Topics: Combinatorics, Number Theory	Morocco 2017–2019
Skills	
 Programming: C++, Java, Python, Matlab Languages: Arabic (native) French (fluent) English (TOEFL Score: 108) Japanese (Basic) 	
Outside activities	
Math&Maroc, NGO. Promoting Olympiad mathematics - Treasurer	Palaiseau, France
Directing Moroccan training program fo International Mathematical Olympiad and maths competitions	2017-2019
XProjets, Junior Entreprise of Ecole Polytechnique Designed the quality transition plan of the association and oversaw its implementation and its ISO9001 certifying	Palaiseau, France 2017-Ongoing
Notable awards and honors	
International Mathematical Olympiad Competitor, National rank: 3	Chiang Maï, Thaïland July 2015
Concours Général National rank: 3	Rabat, Morocco

July 2015

National rank: 3