

Abdellah Aznag | Resume

HERE GITHUB SOON • ✉ abdellah.aznag@polytechnique.edu

Application for a PhD in Operations Research

Education

- **École Polytechnique - Cycle Ingénieur Polytechnicien** Palaiseau, France
Third year, One of France's leading universities in engineering
Master's level program in Applied Math and Computer Science, GPA: 3.8/4.0 2017-Present
- **Preparatory program - Lycée Pierre de Fermat** Toulouse, France
MPSI-MP/Computer Science, GPA 4.0/4.0*
A 2-year program leading to competitive entrance examinations to the Grandes Ecoles for scientific studies 2015-2017
- **Lycée Ange Bleu** El Jadida, Morocco
Baccalaureat awarded with highest honors 2015

Project/Research Work

- **Studying of the robustness of spectral clustering** Palaiseau, France
Implemented rare events simulation techniques to estimate the robustness of spectral clustering
Experimental project under the supervision of Prof. Emmanuel GOBET 2019
- **Estimating the stability number of stochastic power law graphs using copositive programming relaxations** Paris, France
Investigating on potentially tractable exact relaxations using sum-of-squares
Georgina HALL 2019-Ongoing
- **Studying the bit complexity of logarithmically-homogeneous barriers Interior Point Methods** Palaiseau, France
Proved that entropic barrier Interior Point Methods are not strongly polynomial
Stephane GAUBERT, Xavier ALLAMIGEON 2019-Ongoing
- **Determining the attention/focus state of students during class** Palaiseau, France
Implemented a statistical decision model which outputs the focus state of students in a classroom
Stanislas DEHAENE, Jérôme SACKUR 2018-2019

Internship Experience

- **Apprentis d'Auteuil - Middle school Educator** Meudon, France
Worked in a team of educators and overhauled the structure of a middle school for unprivileged students 2017-2018
- **Novade - Data scientist intern** Singapore
Built a RNN model that predicts future workload and accordingly allocates human resources Summer 2019

Teaching experience

- **Ecole Polytechnique Féminine - Teacher Assistant in University** Paris, France
Assisted the professor in lectures and taught the recitation class
Topics: Advanced measure theory, Topology, Probability, Real Analysis 2017-2019
- **National Moroccan Olympiads - Tutor** Morocco
Participated in designing and teaching the current Moroccan olympiad training curriculum
Topics: Combinatorics, Number Theory 2017-2019

Skills

- **Programming:** C++, Java, Matlab
- **Languages:** Arabic (native) French (fluent) English (TOEFL Score: 108) Japanese (Basic)

Outside activities

- **Math&Maroc, NGO. Promoting Olympiad mathematics - Treasurer** Palaiseau, France
Negotiating curriculum Organises national conferences. Editor-in-chief of the association's review 2017-2019
- **X-Finance - Member of the quantitative division** Palaiseau, France
Organises large scale events and university workshops related to quantitative trading 2018-Ongoing
- **XProjets, Junior Enterprise of Ecole Polytechnique** Palaiseau, France
Designed the quality transition plan of the association and oversaw its implementation and its ISO9001 certifying 2017-Ongoing

Notable awards and honors

- **International Mathematical Olympiad** Chiang Mai, Thailand
Competitor, National rank: 3 July 2015
- **Concours Général** Rabat, Morocco
Top ranking Award. National rank: 3 July 2015