

Ali Al zoobi

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Date of birth: 21/01/1995 Place of birth: Beirut, Lebanon.

Education

- 2018–Present **PhD in Computer Science**, *Inria labs*, Sophia-antipolis, France.
2016–2018 **Masters of Theoretical Computer Science**, *Faculty of sciences*, Montpellier, France.
2014–2016 **License of Computer Science**, *Lebanese University, Faculty of sciences*, Beirut, Lebanon.

Scientific interests

- Main interests Operations research, combinatorial optimization, data structures, graph theory and linear programming.
Others Logic, probabilistic algorithms and complexity theory.

Research activities

- October 2018 **Phd thesis**, Inria labs, Sophia-antipolis, France
– Present

Title: Algorithms for shared on-demand transportation services in urban area

Supervisors: D. Coudert and N. Nisse

Description: The goal of the PhD is to investigate an algorithmic solutions enabling a city to operate a new form of shared on-demand transportation service. And to design a flexible data structures and algorithms enabling fast query and update times, the filling of vehicles, the optimization of the overall operation cost, the pre-positioning of vehicles, etc.

- February – **Research internship**, Ecole Normale Supérieure of Lyon - LIP, Lyon, France
July 2018

Title: Scheduling for sparse linear algebra

Supervisors: L. Marchal and B. Simon

Description: The goal of the internship is to study the issues of malleable tasks scheduling and to take into account some properties of its task graphs in order to improve the allocation of resources and reduce the total processing time of the application. Then proposing a model of the problem, try to find an algorithmic solution and implement it (results published).

June – July 2017 **Research internship**, Faculty of sciences, Beirut, Lebanon.

Title: Antidirected Hamiltonian paths and directed cycles in tournaments

Supervisors: A. El Sahili

Description: The goal of the internship is to study the relations between the number of anti-directed Hamiltonian paths and the number of Hamiltonian circuits in a tournament and try to simplify some difficult proofs.

March – April 2017 **Research internship**, Faculty of sciences of Montpellier, France.

Title: Approximation algorithms for the TSP (traveling salesman problem)

Supervisors: R. Giroudeau and A. Chateau

Description: The goal of the internship is to study the existing approximation algorithms (like that of christophides which has an approximation ratio of $3/2$), implement them, test them, do statistical analyzes and try to find other algorithms or metaheurestics that can solve the problem more effectively.

Computer skills

Programming Languages & Technologies C/C++, Python (SAGEMATH library), Minizinc solver for the CSP, CPLEX solver for linear programs, Prolog, SQL, parallel programming and Linux.

Editors \LaTeX , Microsoft Office

Relevant activities and interests

Problem Solving Doing online challenges on hackerrank community. I won the second place in the programming championship of the Lebanese University all branches in 2016

Chess I won the 4th place in the championship of the Lebanese University in 2015

Debate I participated in Qatar International Debating Championship as a member of the Lebanese team and we got the first place (Doha, Qatar 2012).

Languages

English **fluent(speaking,reading,writing)**

French **fluent(speaking,reading,writing)**

Arabic **Native Language**