

# Edin Husić

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**INTERESTS** Applied mathematics, theoretical computer science, combinatorial optimization, approximation algorithms, graph theory, integer programming.

**EDUCATION** *Currently pursuing:*

- PhD degree in mathematics at London School of Economics.  
Supervisors: dr. Laászló A. Végh and prof. Gregory Sorkin.

*Finished:*

- *Master 2 of Fundamental Computer Science with average grade 16.03/20*  
June 2017, École Normale Supérieure de Lyon, France.
- *Master of General Mathematical Sciences average grade 9.56/10*  
*Thesis topic:* "The maximum independent set problem and equistable graphs"  
Supervisors: dr. Ademir Hujdurović and prof. Martin Milanič.  
August 2017, University of Primorska, Koper, Slovenia. Available at [link](#).
- *Bachelor of Mathematics with average grade 9.59/10*  
*Thesis topic:* "Submodular functions".  
Supervisor: prof. Martin Milanič.  
September 2015, University of Primorska, Koper, Slovenia. Available at [link](#).
- *Gymnasium "Meša Selimović" as "The best student of generation 2011/2012"*,  
Tuzla, Bosnia and Herzegovina.
- *Elementary school "Novi Grad" as "The best student of generation 2007/2008"*,  
Tuzla, Bosnia and Herzegovina.

**INTERNSHIP** Topic: "Structure of even-hole-free graphs."  
Laboratoire de l'Informatique du Parallélisme. February - June 2017, Lyon, France.  
Supervisors: dr. Nicolas Trotignon and prof. Stéphan Thomassé.

**JOURNAL PAPERS** 1. Perfect phylogenies via branchings in acyclic digraphs and a generalization of Dilworth's theorem. A. Hujdurović, E. Husić, M. Milanič, R. Rizzi, A. I. Tomescu. ACM Transactions on Algorithms, accepted.

**CONFERENCE PAPERS** 1. The minimum conflict-free row split problem revisited. A. Hujdurović, E. Husić, M. Milanič, R. Rizzi, A. I. Tomescu. Proceedings of the 43rd International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2017), Lecture Notes in Computer Science 10520 (2017) 303-315.

**TEACHING** Teaching Assistant: Operational Research Methods 2017/2018. LSE, London, UK.

**SUMMER SCHOOLS** - *São Paulo School of Advanced Science on Algorithms, Combinatorics and Optimization* (full financial support), São Paulo, Brazil, 18.07 - 29.07.2016.  
- *PhD Summer School in Discrete Mathematics 2015*  
Rogla, Slovenia, 27.06 - 3.07.2015.

- *PhD Summer School in Discrete Mathematics and Symmetries of Graphs and Networks IV*, Rogla, Slovenia, 29.06 - 5.07.2014.

## PROJECTS

- + Poster: "The minimum conflict-free row split problem – a model for reconstructing perfect phylogenies from mixed tumor samples", São Paulo, Brazil, 26.07.2016.
- + Demographic data analysis with use of machine learning in project "What We Wood Believe", Koper, Slovenia, November 2015.
- + Statistical analysis in project for university students – "Suppression of affects of crows predation in colonial birds", 01.04 - 31.07.2015.

## HONORS AND AWARDS

- Awarded LSE PhD studentship for period 2017/2018 - 2021/2022.
- Awarded "Labex MILYON" excellence scholarship for studies in Master 2 of Fundamental Computer Science at École Normale Supérieure de Lyon (2016/2017),
- Awarded French Government Fellowship for Master 2 studies in 2016/2017,
- Awarded full scholarship by Scholarship Fund of University of Primorska (Slovenia), for academic years 2012/2013, 2013/2014, 2014/2015, 2015/2016.
- "Municipality Tuzla Award for highly successful students" for academic years 2011/2012, 2014/2015.
- Certificate as "*The Most Successful Teenager of Tuzla*", 2008.

## SKILLS

Besides my mother tongue (Bosnian), I speak English and Slovenian fluently and have basic knowledge of German, French and Czech.

Programming: Java, Cplex, Octave, Scilab, basics of Python and OCaml.

A few projects can be found at GitHub profile: <https://github.com/zhero9>

## CONTESTS

Out of numerous triumphs on mathematical contests during elementary and high school, the following stand out:

- *1<sup>st</sup> place*, Championship of Federation of Bosnia and Herzegovina (2007, 2010).
- *2<sup>nd</sup> place*, National Olympiad of Bosnia and Herzegovina (2008).
- *Bronze award*, 12<sup>th</sup> JBMO-Junior Balkan Mathematical Olympiad (2008).

University level awards :

- *Honourable mention*, Open Mathematical Olympiad of the Belarusian-Russian University (2014).
- *Honourable mention*, IMC-International Mathematics Competition for University Students (2013).
- *Bronze medal*, Open International Internet-Olympiad discipline Mathematics (2013).

## EXTRA- CURRICULAR ACTIVITIES

- Teaching assistant for "Graphs are everywhere" during summer school for high-school students "Mathematics is cool", Koper, Slovenia, 21.08. - 25.08.2017
- Part time mathematics instructor, "ACADEMUS d.o.o", Koper, Slovenia, October 2015 - July 2016.

- Together with my colleagues, friends and roommates Marko Prač and Vladan Jovičić won start up "Podjetna Primorska", Koper, Slovenia, 26.05.2016.
- 2<sup>nd</sup> place at NASA Space App Challenge, (30sec video presentation: <https://www.youtube.com/watch?v=i6SbFHEdnmk>) Koper, Slovenia, 22.04-24.04.2016.
- Participated at 9<sup>th</sup> Middle European Mathematical Olympiad as a guide, Koper, Slovenia, 25.08-31.08.2015.
- Attended the first "World Science Conference Isreal" [link](#), Jerusalem, Israel, 15.08-20.08.2015.
- *ERASMUS exchange program for students*, winter semester on Charles University, Prague, Czech Republic, 30.9.2013 - 14.02.2014.