

# Slavomír Hanzely

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## EDUCATION

**Faculty of Mathematics, Physics and Informatics, Comenius University,** 2016-present  
Computer Science (3rd-year undergraduate student)

95 credits in 1st year (official max. number - 90, including 2nd, 3rd a master's courses)  
70 credits in the 2nd year (not including two unofficially passed master's courses in  
Computer Science and one unofficially passed master's course in Mathematics)  
Passed all bachelor finals in advance and with best grades (only bachelor thesis re-  
mains to be done).

This semester I am unofficially attending (due to the high amount of credits) 10 cour-  
ses<sup>1</sup>: 3 bachelor's courses in Mathematics, 5 master's courses in Computer Science  
and 2 master's courses in Mathematics.<sup>2</sup>

**Gymnázium Jána Adama Raymana, Prešov** 2013-2016  
Graduation (Maturita) in 6 subjects (only 4 are compulsory), passed with best grades

**Coursera** (during high school)  
Machine learning, Calculus (1, 2), Learning how to learn, Introduction to Psychology

## ACHIEVEMENTS [Vojtěch Jarník Competition](#)

2017: **8-10th place** in category 1 (first place within Czech and Slovak contestants)

### [Mathematical Olympiad](#)

2016: **3rd place** on the national round, category A (winner)

Participation on **International Mathematical Olympiad** (IMO)

1st place on regional round, category A

2015: 18-20th place (**bronze medal**) on Middle European Mathematical Olympiad  
(MEMO)

2014: 1st place on regional round, category B

2013: 1st place on regional round, category C

Participation on Czech-Polish-Slovak match junior (CPSJ) - 3rd place within  
Slovak contestants

### [Olympiad in Computer Science](#)

2016: 1st place on regional round, category A

2015: 2nd place on regional round, category B

## WORKING EXPERIENCES

### **Mathematical Olympiad**

- marking solutions at the national round of Mathematical Olympiad (twice to this day)
- organizing one day at the selection camp for International Mathematical Olympiad - creating problem set and marking the solutions (twice to this day)

### **Trojsten** - volunteering

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<sup>1</sup>Category Theory, Graph Theory, Combinatorial Structures, Markov Processes, Probability Theory, Selected Topics in Data Structures, Selected Topics in Algebra, Matrix Calculus, Mathematical Analysis(3), Unstructured Talks on Structures: Chapters in Mathematics for Computer Scientist

<sup>2</sup>Master's courses that I had already passed: Cryptology, Programming Languages, Probabilistic Methods.

- marking solutions of the correspondent competitions KMS, KSP and iKS (approximately 600 solutions)
- organizing camps for talented high school students in Mathematics and Computer Science - up to this day, I have organized 8 camps (3 of them as the main organizer), next one is being prepared.
- lecturing 29 lectures (including a half-day lecture on the camp iKS)

## PROJECTS

### **Stochastic Algorithms for Convex Feasibility and Optimization with Many Constraints** (Supervisor: [Peter Richtárik](#))

In this project, I was testing algorithms for solving convex feasibility problem (finding a point sufficiently close to complicated convex set) and SAGA algorithm for empirical risk minimization (finding a minimum of a complicated function satisfying a large set of constraints).

Also, parameter tuning was included, I was trying to find the best parameters in practice and compare them to the optimal parameters provided by the theory.

I visited [King Abdullah University of Science and Technology](#) for 39 days in order to work on this project.

You can find a project report [here](#).

## CONFERENCE PARTICIPATION

### **Optimization and Big Data conference** (5-7 February 2018)

A conference organized by Peter Richtárik devoted to the most recent advances in Optimization and Machine Learning.

### **ReactiveConf 2017**

Conference devoted to web technologies.

## SKILLS

### Programming

- advanced in Haskell, C/C++, Julia, Java, Python, L<sup>A</sup>T<sub>E</sub>X, Assembler
- basics Octave
- Linux

## HOBBIES

### Sport

- ultimate frisbee  
participation on European Youth ultimate Championship (in Nederland) - representing Slovak national team  
participation on European Youth ultimate Cup (in Hungary) - representing Slovak national team
- in past: ice-hockey, floorball, karate