

Václav ROZHOŇ

PERSONAL DATA

BIRTHDAY: January 3, 1996
NATIONALITY: Czech Republic
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ACHIEVEMENTS

2020 ETH medal for outstanding Master's thesis
2018 ETH Excellence Scholarship award for Master's programme Theoretical Computer Science
2015 International Olympiad in Informatics – Bronze medal
2015 International Physics Olympiad - Silver medal

EDUCATION

CURRENT PhD student in the group of Mohsen Ghaffari
ETH Zurich
JANUARY 2020 Master's Degree Program in Theoretical Computer Science
ETH Zurich
JUNE 2018 Bachelor's Degree Program in Computer Science
Charles University in Prague

WORK EXPERIENCE AND INTERNSHIPS

OCT 2016 – AUG 2018 | Part-time (20%) job at [Institute of Computer Science of the Czech Academy of Sciences, Department of Theoretical Computer Science, Extremal graph theory group](#)
Working in the area of graph limits and extremal graph theory.

JUNE-JULY 2017 | DIMACS, Rutgers, The State University of New Jersey
part of the [REU](#) programme

PUBLICATIONS

- Michael Elkin @Bernhard Haeupler @Václav Rozhoň @Christoph Grunau: Deterministic Low-Diameter Decompositions for Weighted Graphs and Distributed and Parallel Applications,
- Jan Grebík, Rachel Greenfeld, Václav Rozhoň, Terence Tao: Measurable tilings by abelian group actions,
- Christoph Grunau, Václav Rozhoň: Adapting k-means Algorithms for Outliers, *International Conference on Machine Learning (ICML) 2022*;
- Marcel Bezdrighin, Michael Elkin, Mohsen Ghaffari, Christoph Grunau, Bernhard Haeupler, Saeed Ilchi, Václav Rozhoň : Deterministic Distributed Sparse and Ultra-Sparse Spanners and Connectivity Certificates, *ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) 2022*;
- Christoph Grunau @Václav Rozhoň @Sebastian Brandt : The Landscape of Distributed Complexities on Trees and Beyond, *Principles of Distributed Computing (PODC) 2022*;
- Václav Rozhoň @Christoph Grunau @Bernhard Haeupler @Goran Zuzic @Jason Li: Undirected $(1+\epsilon)$ -Shortest Paths via Minor-Aggregates: Near-Optimal Deterministic Parallel & Distributed Algorithms, *ACM Symposium on Theory of Computing (STOC) 2022*;
- Sebastian Brandt, Yi-Jun Chang, Jan Grebík, Christoph Grunau, Václav Rozhoň, Zoltán Vidnyánszky: On Homomorphism Graphs,
- Sebastian Brandt, Yi-Jun Chang, Jan Grebík, Christoph Grunau, Václav Rozhoň, Zoltán Vidnyánszky:

Local Problems on Trees from the Perspectives of Distributed Algorithms, Finitary Factors, and Descriptive Combinatorics, *Innovations of Theoretical Computer Science (ITCS) 2022*;

- Sebastian Brandt, Christoph Grunau, Václav Rozhoň: The randomized local computation complexity of the Lovász local lemma, *Principles of Distributed Computing (PODC) 2021*;
- Jan Grebík, Václav Rozhoň: Classification of Local Problems on Paths from the Perspective of Descriptive Combinatorics, *EUROCOMB 2021*
- Jan Grebík, Václav Rozhoň: Local Problems on Grids from the Perspective of Distributed Algorithms, Finitary Factors, and Descriptive Combinatorics,
- Mohsen Ghaffari, Christoph Grunau, Václav Rozhoň: Improved Deterministic Network Decomposition, *ACM-SIAM Symposium on Discrete Algorithms (SODA) 2021*;
- Sebastian Brandt, Christoph Grunau, Václav Rozhoň: Generalizing the Sharp Threshold Phenomenon for the Distributed Complexity of the Lovász Local Lemma, *Principles of Distributed Computing (PODC) 2020*;
- Václav Rozhoň: Simple and sharp analysis of k-means||, *International Conference on Machine Learning (ICML) 2020*;
- Davin Choo, Christoph Grunau, Julian Portmann, Václav Rozhoň: k-means++: few more steps yield constant approximation, *International Conference on Machine Learning (ICML) 2020*;
- Václav Rozhoň, Mohsen Ghaffari: Polylogarithmic-Time Deterministic Network Decomposition and Distributed Derandomization, *Symposium on Theory of Computing (STOC) 2020*;
- Martin Doležal, Jan Grebík, Jan Hladký, Israel Rocha, Václav Rozhoň: Cut distance identifying graphon parameters over weak* limits, *Submitted*;
- Martin Doležal, Jan Grebík, Jan Hladký, Israel Rocha, Václav Rozhoň: Relating the cut distance and the weak* topology for graphons, *Journal of Combinatorial Theory, series B*;
- Václav Rozhoň: A local approach to the Erdős-Sós conjecture, *SIAM Journal on Discrete Mathematics*;
- Tereza Klímová, Diana Piguet, Václav Rozhoň: A version of the Lovász-Komlós-Sós conjecture for skewed trees, *EUROCOMB 2017, European Journal on Combinatorics for EUROCOMB 2017*;

LANGUAGES

In the order of proficiency: Czech, English, C++, German

OTHER

In my free time I help with organization of competitions and educational camps for talented high school students ([Czech Olympiad in Informatics 2015--](#), [Kasiopea 2016--](#), [MKS 2015-2019](#), [M&M 2015-2018](#)).