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**

Publications

- Bernhard Haeupler, Richar Hladík, Václav Rozhoň, Robert Tarjan, Jakub Tětek: Universal Optimality of Dijkstra via Beyond-Worst-Case Heaps,
- Mohsen Ghaffari, Christoph Grunau, Václav Rozhoň: Work-Efficient Parallel Derandomization I: Chernoff-like Concentrations via Pairwise Independence, *2023 IEEE 64th Annual Symposium on Foundations of Computer Science (F*
- Christoph Grunau, Ahmet Alper Özüdoğru, Václav Rozhoň: Noisy k-means++ revisited, *European Symposium on Algorithms (ESA) 2023;*
- Jakub Łącki ®Bernhard Haeupler ®Christoph Grunau ®Václav Rozhoň ®Rajesh Jayaram: Fully Dynamic Consistent k-Center Clustering,
- Václav Rozhoň ®Bernhard Haeupler ®Anders Martinsson ®Christoph Grunau ®Goran Zuzic: Parallel Breadth-First Search and Exact Shortest Paths and Stronger Notions for Approximate Distances, *ACM Symposium on Theory of Computing (STOC) 2023;*
- Václav Rozhoň ®Bernhard Haeupler ®Christoph Grunau: A Simple Deterministic Distributed Low--Diameter Clustering , *ACM-SIAM Symposium on Simplicity in Algorithms (SOSA) 2023;*
- Mohsen Ghaffari, Christoph Grunau, Bernhard Haeupler, Saeed Ilchi, Václav Rozhoň: Improved Distributed Network Decomposition, Hitting Sets, and Spanners, via Derandomization , *ACM--SIAM Symposium on Discrete Algorithms (SODA) 2023;*
- Salwa Faour, Mohsen Ghaffari, Christoph Grunau, Fabian Kuhn, Václav Rozhoň: Local Distributed Rounding: Generalized to MIS, Matching, Set Cover, and Beyond , *ACM-SIAM Symposium on Discrete Algorithms (SODA) 2023;*
- Christoph Grunau, Ahmet Alper Özüdoğru, Václav Rozhoň, Jakub Tětek: A Nearly Tight Analysis of Greedy k-means++ , *ACM-SIAM Symposium on Discrete Algorithms (SODA) 2023;*
- Michael Elkin ®Bernhard Haeupler ®Václav Rozhoň ®Christoph Grunau: Deterministic Low--Diameter Decompositions for Weighted Graphs and Distributed and Parallel Applications, *IEEE Symposium on Foundations of Computer Science (FOCS) 2022;*

- Jan Grebík, Rachel Greenfeld, Václav Rozhoň, Terence Tao: Measurable tilings by abelian group actions, *International Mathematics Research Notices;*
- 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, *Journal of Combinatorial Theory, series A;*
- 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 Klimošová, Diana Piguet, Václav Rozhoň: A version of the Loebl-Komlós-Sós conjecture for skewed trees, *EUROCOMB 2017, European Journal on Combinatorics for EUROCOMB 2017;*

Languages

In the order of proficiency: Czech, English, C++, Python, 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--2021, MKS 2015-2019, M&M 2015--2018). I write scripts for a YouTube channel Polylog.