Curriculum Vitae

Jakub Pachocki meret@seas.harvard.edu

Work experience

2016 – present Harvard School of Engineering and Applied Sciences Postdoctoral Fellow

Education

2013 - 2016	Carnegie Mellon University
	PhD in Computer Science
	Thesis: Graphs and Beyond: Faster Algorithms for High Dimen-
	sional Convex Optimization
	Advisor: Gary Miller
2010 - 2013	University of Warsaw
	Bachelor's Degree in Computer Science

Publications

author names in alphabetical order

- M. Cohen, Y. T. Lee, G. Miller, J. Pachocki and A. Sidford. Geometric Median in Nearly Linear Time. 48th Annual Symposium on the Theory of Computing (STOC 2016).
- A. Ene, G. Miller, J. Pachocki and A. Sidford. Routing under Balance. 48th Annual Symposium on the Theory of Computing (STOC 2016).
- M. Cygan, F. Fomin, A. Golovnev, A. Kulikov, I. Mihajlin, J. Pachocki and A. Socała. Tight bounds for graph homomorphism and subgraph isomorphism. 27th Annual Symposium on Discrete Algorithms (SODA 2016).
- M. Cohen, C. Musco and J. Pachocki. Online Row Sampling. 19th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2016).
- M. Mitzenmacher, J. Pachocki, R. Peng, C. E. Tsourakakis and S. C. Xu. Scalable Large Near-Clique Detection in Large-Scale Networks via Sampling. 21th International Conference on Knowledge Discovery and Data Mining (KDD 2015).
- M. Cohen, G. Miller, R. Kyng, J. Pachocki, R. Peng, A. Rao and S. C. Xu. Solving SDD Systems in Nearly $O(m\sqrt{\log n})$ Time. 46th Annual Symposium on the Theory of Computing (STOC 2014).
- M. Cygan, J. Pachocki, A. Socała. The Hardness of Subgraph Isomorphism. arXiv preprint, 2015.
- M. Cohen, G. Miller, J. Pachocki, R. Peng and S. C. Xu. Stretching stretch. arXiv preprint, 2014.

- M. Cohen, R. Kyng, J. Pachocki, R. Peng and A. Rao. Preconditioning in expectation. arXiv preprint, 2014.
- T. Kociumaka, J. Pachocki, J. Radoszewski, W. Rytter and T Waleń. On the String Consensus Problem and the Manhattan Sequence Consensus Problem. String Processing and Information Retrieval (SPIRE 2014).
- T. Kociumaka, J.Pachocki, J. Radoszewski, W. Rytter and T. Waleń. Efficient Counting of Square Substrings in a Tree. 23rd International Symposium on Algorithms and Computation (ISAAC 2012).
- Maxime Crochemore, Costas S Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Jakub Pachocki, Jakub Radoszewski, Wojciech Rytter, Wojciech Tyczyński, Tomasz Waleń. A note on efficient computation of all Abelian periods in a string. Information Processing Letters 113.

Internships

of Com-

Achievements in programming competitions

- World Champion of Google Code Jam 2012 international competition by Google, over 35,000 participants
- Second place (gold medal) in the World Finals of the ACM International Collegiate Programming Contest, 2012 annual team programming competition held since 1977; in 2012, over 2,000 universities participated
- Second place in the TopCoder Open Algorithm tournament, 2012 worldwide programming competition; eight competitors advance to the finals, conducted in front of a live audience
- Winner of the Central European Regional Contest in 2010 and 2011 regional qualifiers for ACM ICPC; seventy teams, seven countries
- Winner of the Governor's Cup of the Republic of Karelia in 2011 and 2012 all the top Russian teams participate in this competition

Other programming competitions

present	TopCoder rating: 3328 (handle: meret)
present	Codeforces rating: 2655 (handle: meret)
2015	Winner of eth1 at CMU (trading contest organized by Jane Street)
2015	Winner of the Challenge24 competition
2013	Second place in the World Finals of Facebook Hacker Cup 2013
2011	Fourth place in the World Finals of Facebook Hacker Cup 2011
2011	Fourteenth place in the ACM ICPC World Finals
2010, 2011	Winner of Polish Collegiate Programming Contest
2011	Third place in the World Finals of Google Code Jam 2011
2009	Silver medal in the International Olympiad in Informatics
2009	Gold medal in the Central European Olympiad in Informatics
2009	Winner of the Baltic Olympiad in Informatics
2009	Silver medal in the Middle European Olympiad in Mathematics

Other activities

2015 - present	Member of Scientific Advisory Board at deepsense.io
2011 - 2013	Vice-chair of the Polish Junior Olympiad in Informatics

Scholarships

2016	Sansom Graduate Fellowship in Computer Science
2011 - 2013	Scholarship for the top ten Computer Science students at the Uni-
	versity of Warsaw
2011 - 2013	Scholarship of the Polish Ministry of Science and Higher Education
2011 - 2012	Scholarship of the Rector of the University of Warsaw
2011 - 2012	Scholarship of the Fundation of PKO Bank Polski