

Łukasz Jeż

Date of Birth: 17 Oct 1983
Place of Birth: Wrocław, Poland
Nationality: Polish

Work Experience:

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| since Feb 2015 | PostDoc (with Nikhil Bansal) Eindhoven University of Technology Dept. of Mathematics and Computer Science |
| Nov 2013 – Jan 2015 | PostDoc (with Yossi Azar and Amos Fiat) Tel Aviv University Blavatnik School of Computer Science |
| Nov 2012 – Oct 2013 | PostDoc (with Stefano Leonardi) Sapienza University of Rome Dept. of Computer, Control, and Management Eng. |
| since Oct 2012 (<i>on leave</i>) | Assistant Professor University of Wrocław Institute of Computer Science |
| Jul 2012 – Oct 2012 | PostDoc (with Monaldo Mastrolilli) IDSIA, University of Lugano |
| Oct 2011 – Jun 2012 | PostDoc (with Jiří Sgall) Academy of Sciences of the Czech Republic Institute of Mathematics |

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Education:

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| 2007–2011 | PhD studies in computer science University of Wrocław thesis: <i>Online Packet Scheduling</i> defended <i>summa cum laude</i> in September 2011 advisors: prof. Marek Chrobak (UCR) and dr hab. Tomasz Jurdziński (UWr) |
| 2002–2007 | MSc studies in computer science University of Wrocław thesis: <i>Deterministic broadcast in radio networks</i> defended <i>summa cum laude</i> in June 2007 advisor: prof. Krzysztof Loryś |
| 2006/2007 | Scholarship of the Polish Ministry of Education |

Languages: native Polish
 fluent English
 basic Czech
 German¹
 Italian¹
 Russian¹

Research Visits: Dec 2013 University of California, Riverside, CSE Dept.
 Sep 2013 University of Pierre and Marie Curie (Paris 6), CS Lab.
 Jun 2013 Charles University in Prague, Applied Math. Dept.
 Apr 2012 University of California, Riverside, CSE Dept.
 Nov 2011 University of California, Riverside, CSE Dept.
 Jul 2011 University of Pierre and Marie Curie (Paris 6), CS Lab.
 Sep 2010 University of California, Riverside, CSE Dept.
 Dec 2009 Charles University in Prague, Applied Math. Dept.
 Sep and Dec 2008 École Polytechnique, CS Lab.

Grants²: Research Project (no reference number yet), 2014–2016
 Online algorithms for fundamental network problems

 Research Project *Scheduling on Related Machines*, 2012 (short term)
 funded by Math & CS Dept. of University of Wrocław
 principal investigator

 Research Project N N206 368839, 2010–2013
 Approximation Algorithms under Uncertainty

 Research Project N N206 490638, 2010–2011
 Online Scheduling
 principal investigator

 Research Project N N206 1723 33, 2007–2010
 Approximation and Online Algorithms for Network Problems

 Research Project N206 001 31/0436, 2007–2008
 Dynamic Networks: Exploration and Data Management

Awards: stipend for young talented researchers START,
 awarded by the Foundation for Polish Science (2013)

 Scholarship cofounded by ESF, awarded by University of Wrocław (2011 and 2012)

 Travel grant awarded by Foundation for Polish Science for attending
 ACM-SIAM *Symposium on Discrete Algorithms* (SODA, 2009)

¹once intermediate, rusted over years; but I do learn languages willingly and almost as easily as I later forget them

²all funded by the Polish Ministry of Science and Higher Education unless otherwise stated

Community Service

For several years I have been providing English translations of problems appearing at Polish Olympiad in Informatics, a national programming contest endorsed by the Ministry of National Education.

I have been helping in organizing conferences whenever an opportunity arose: from national conferences in Poland during my MSc studies, through ICALP when it was held at University of Wrocław in 2007, to FOCS 2011, when I was visiting Marek Chrobak, the local arrangements chair.

- Program Committees Membership
 - 11th Workshop on Approximation and Online Algorithms (WAOA 2013)
- Reviews for Grant Agencies
 - German-Israeli Foundation for Scientific Research and Development (GIF)
 - United States-Israel Binational Science Foundation (BSF)
- Reviews for Journals
 - Algorithmica (ALGO)
 - European Journal of Operational Research (EJOR)
 - Information Processing Letters (IPL)
 - International Journal on Foundations of Computer Science (IJFCS)
 - Journal of Combinatorial Optimization (JOCO)
 - Operations Research Letters (ORL)
 - Journal of Scheduling (JOSH)
 - Transactions on Algorithms (TALG)
 - Theory of Computing Systems (TOCS)
- Reviews for Conferences
 - Int. Workshop on Approximation Algorithms for Comb. Optimization Problems (APPROX)
 - International Conference on Algorithms and Complexity (CIAC)
 - International Symposium on Distributed Computing (DISC)
 - European Symposium on Algorithms (ESA)
 - International Colloquium on Automata, Languages and Programming (ICALP)
 - International Symposium on Combinatorial Optimization (ISCO)
 - International Symposium on Mathematical Foundations of Computer Science (MFCS)
 - Int. Colloquium on Structural Information and Communication Complexity (SIROCCO)
 - ACM-SIAM Symposium on Discrete Algorithms (SODA)
 - ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)
 - International Symposium on Theoretical Aspects of Computer Science (STACS)
 - Conference on Web and Internet Economics (WINE)

Publications

Conferences

- [C1] Ilan Reuven Cohen, Alon Eden, Amos Fiat, and Łukasz Jeż. Pricing online decisions: Beyond auctions. In *Proc. of the 26th ACM-SIAM Symp. on Discrete Algorithms (SODA)*, pages 73–91, 2015.
- [C2] Marcin Bieńkowski, Jarosław Byrka, Marek Chrobak, Łukasz Jeż, Dorian Nogneng, and Jiří Sgall. Better approximation bounds for the joint replenishment problem. In *Proc. of the 25th ACM-SIAM Symp. on Discrete Algorithms (SODA)*, pages 42–54, 2014.
- [C3] Christoph Dürr, Łukasz Jeż, and Oscar C. Vásquez. Mechanism design for aggregating energy consumption and quality of service in speed scaling scheduling. In *Proc. of the 9th Conf. on Web and Internet Economics (WINE)*, pages 132–143, 2013.
- [C4] Marek Cygan and Łukasz Jeż. Online knapsack revisited. In *Proc. of the 11th Workshop on Approx. and Online Algorithms (WAOA)*, pages 144–155, 2013.
- [C5] Marcin Bieńkowski, Jarosław Byrka, Marek Chrobak, Łukasz Jeż, Jiří Sgall, and Grzegorz Stachowiak. Online control message aggregation in chain networks. In *Proc. of the 13th Int. Workshop on Algorithms and Data Structures (WADS)*, pages 133–145, 2013.
- [C6] Leah Epstein, Łukasz Jeż, Jiří Sgall, and Rob van Stee. Online Scheduling of Jobs with Fixed Start Times on Related Machines. In *Proc. of the 15th Int. Workshop on Approx. Algorithms for Comb. Optim. (APPROX)*, pages 134–145, 2012.
- [C7] Łukasz Jeż. One to Rule Them All: A General Randomized Algorithm for Buffer Management with Bounded Delay. In *Proc. of the 19th European Symp. on Algorithms (ESA)*, pages 239–250, 2011.
- [C8] Marek Chrobak, Łukasz Jeż, and Jiří Sgall. Better Bounds for Incremental Frequency Allocation in Bipartite Graphs. In *Proc. of the 19th European Symp. on Algorithms (ESA)*, pages 251–262, 2011.
- [C9] Paweł Gawrychowski, Artur Jeż, and Łukasz Jeż. Validating the Knuth-Morris-Pratt Failure Function, Fast and Online. In *Proc. of the 5th Int. Comput. Sci. Symp. in Russia (CSR)*, pages 132–143, 2010.
- [C10] Łukasz Jeż. Randomized Algorithm for Agreeable Deadlines Packet Scheduling. In *Proc. of the 27th Symp. on Theor. Aspects of Comput. Sci. (STACS)*, pages 489–500, 2010.
- [C11] Christoph Dürr, Łukasz Jeż, and Nguyen Kim Thang. Online Scheduling of Bounded Length Jobs to Maximize Throughput. In *Proc. of the 7th Workshop on Approx. and Online Algorithms (WAOA)*, pages 116–127, 2009.
- [C12] Marcin Bienkowski, Marek Chrobak, Christoph Dürr, Mathilde Hurand, Artur Jeż, Łukasz Jeż, and Grzegorz Stachowiak. Collecting weighted items from a dynamic queue. In *Proc. of the 20th ACM-SIAM Symp. on Discrete Algorithms (SODA)*, pages 1126–1135, 2009.
- [C13] Marcin Bienkowski, Marek Chrobak, and Łukasz Jeż. Randomized Algorithms for Buffer Management with 2-Bounded Delay. In *Proc. of the 6th Workshop on Approx. and Online Algorithms (WAOA)*, pages 92–104, 2008.

Journals

- [J14] Marek Cygan, Łukasz Jeż, and Jiří Sgall. Online knapsack revisited. *Theory of Comput. Systems*. To appear in a special issue. <http://dx.doi.org/10.1007/s00224-014-9566-4> Extended version of [C4].
- [J15] Leah Epstein, Łukasz Jeż, Jiří Sgall, and Rob van Stee. Online scheduling of jobs with fixed start times on related machines. *Algorithmica*. To appear. <http://dx.doi.org/10.1007/s00453-014-9940-2> Extended version of [C6].
- [J16] Christoph Dürr, Łukasz Jeż, and Oscar C. Vásquez. Scheduling under dynamic speed-scaling for minimizing weighted completion time and energy consumption. *Discrete Applied Mathematics*. To appear. <http://dx.doi.org/10.1016/j.dam.2014.08.001>.
- [J17] Paweł Gawrychowski, Artur Jeż, and Łukasz Jeż. Validating the Knuth-Morris-Pratt failure function, fast and online. *Theory of Comput. Systems*, 54(2):337–372, 2014. Special issue. Extended version of [C9].
- [J18] Marek Chrobak, Łukasz Jeż, and Jiří Sgall. Better Bounds for Incremental Frequency Allocation in Bipartite Graphs. *Theor. Comput. Sci.*, 514:75–83, 2013. Special issue. Extended version of [C8].
- [J19] Łukasz Jeż. A Universal Randomized Packet Scheduling Algorithm. *Algorithmica*, 67(4):498–515, 2013. Special issue. Extended version of [C7].
- [J20] Łukasz Jeż, Jarett Schwartz, Jiří Sgall, and József Békési. Lower Bounds for Online Makespan Minimization on a Small Number of Related Machines. *J. of Scheduling*, 16(5):539–547, 2013.
- [J21] Marcin Bienkowski, Marek Chrobak, Christoph Dürr, Mathilde Hurand, Artur Jeż, Łukasz Jeż, and Grzegorz Stachowiak. A ϕ -competitive algorithm for collecting items with increasing weights from a dynamic queue. *Theor. Comput. Sci.*, 475:92–102, 2013. Extended version of a result from [C12] that did not appear in [J22].
- [J22] Marcin Bienkowski, Marek Chrobak, Christoph Dürr, Mathilde Hurand, Artur Jeż, Łukasz Jeż, and Grzegorz Stachowiak. Collecting weighted items from a dynamic queue. *Algorithmica*, 65(1):60–94, 2013. Extended version of [C12].
- [J23] Łukasz Jeż, Fei Li, Jay Sethuraman, and Clifford Stein. Online Scheduling of Packets with Agreeable Deadlines. *ACM Trans. on Algorithms*, 9(1):5, 2012. Extended version of [C10].
- [J24] Christoph Dürr, Łukasz Jeż, and Nguyen Kim Thang. Online Scheduling of Bounded Length Jobs to Maximize Throughput. *J. of Scheduling*, 15(5):653–664, 2012. Extended version of [C11].
- [J25] Marcin Bienkowski, Marek Chrobak, and Łukasz Jeż. Randomized Competitive Algorithms for Online Buffer Management in the Adaptive Adversary Model. *Theor. Comput. Sci.*, 412(39):5121–5131, 2011. Extended version of [C13].