

# Jarosław Błasiok

## Address:

Maxwell-Dworkin, room 138  
33 Oxford Street, Cambridge, MA 02138,  
Harvard University  
jblasio@g.harvard.edu

## Education

### 2014 – present:

Ph. D. Candidate in Computer Science  
John A. Paulson School of Engineering and Applied Sciences  
Harvard University  
Cambridge, Massachusetts, USA

### 2012 – 2014:

M. Sc. in Computer Science  
Faculty of Mathematics, Informatics and Mechanics  
University of Warsaw  
Warsaw, Poland

### 2009 – 2012:

B.S. in Computer Science  
Faculty of Mathematics, Informatics and Mechanics  
University of Warsaw  
Warsaw, Poland

### 2006 – 2009:

VIII Liceum Ogólnokształcące im. Marii Skłodowskiej-Curie  
Katowice, Poland

## Publications

*author names in alphabetical order*

- J. Błasiok, Venkatesan Guruswami, Madhu Sudan *Polar Codes with exponentially small error at finite block length*, In submission
- J. Błasiok, M. Bun, A. Nikolov, T. Steinke *Towards an Optimal Algorithm for Concentrated Differential Privacy*, Unpublished manuscript
- J. Błasiok, V. Guruswami, P. Nakkiran, A. Rudra, M. Sudan *General Strong Polarization*, 50th ACM Symposium on Theory of Computing (STOC 2018)
- J. Błasiok *Optimal streaming and tracking distinct elements with high probability*, 29th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2018) **Best student paper award**
- J. Błasiok, J. Ding, J. Nelson *Continuous monitoring of  $\ell_p$  norms in data streams*, 21st International Workshop on Randomization and Computation (RANDOM 2017)
- J. Błasiok, V. Braverman, S. R. Chestnut, R. Krauthgamer, L. F. Yang *Streaming Symmetric Norms via Measure Concentration*, 49th Annual ACM Symposium on the Theory of Computing (STOC 2017)
- J. Błasiok, C. E. Tsourakakis *ADAGIO: Fast Data-aware Near-Isometric Linear Embeddings*, IEEE 16th International Conference on Data Mining (ICDM 2016)
- J. Błasiok, J. Nelson *An improved analysis of the ER-SpUD dictionary learning algorithm*, The 43rd International Colloquium on Automata, Languages and Programming (ICALP 2016)

- J. Błasiok, M. Kamiński, J.-F. Raymond and T. Trunck *Induced minors and well-quasi-ordering*, Journal of Combinatorial Theory, Series B, to appear (preliminary version in EuroComb 2015)
- J. Błasiok and M. Kamiński *Chain Minors are FPT*, Algorithmica 2016, (preliminary version in IPEC 2013)

## Teaching Experience

- Teaching Fellow for *Applied Algebra*, Harvard University, Fall 2016.
  - Certificate of Distinction in Teaching, awarded by Derek Bok Center for Teaching and Learning.
- Teaching Fellow for Summer School *Mathematical Methods for High-Dimensional Data Analysis*, Technische Universität München, Summer 2016
- Teaching Fellow for *Algorithms for Big Data*, Harvard University, Fall 2015
  - Certificate of Distinction in Teaching, awarded by Derek Bok Center for Teaching and Learning.
- Long collaboration with Polish Children’s Fund in organization of workshops/lectures in Computer Science for exceptionally gifted Polish High School students. In particular between 2009 and 2014 presented or helped presenting to high school students basics of the following topics
  - Automata theory and complexity theory
  - Graph algorithms
  - Number theory and basic cryptography
  - Image processing

## Achievements in programming competitions

- Fifth place (silver medal) on ACM ICPC World Finals (2014)
- Gold medalist of XXI International Olympiad in Informatics (2009)
- Gold medalist of XX International Olympiad in Informatics (2008)
- Gold medalist – with first place – of XV Polish Olympiad in Informatics (2008)
- Gold medalist of XIV Baltic Olympiad in Informatics (2008)
- Silver medalist of XIV Polish Olympiad in Informatics (2007)
- Silver medalist of XVI Polish Olympiad in Informatics (2009)
- Bronze medalist of XV Central European Olympiad in Informatics (2008)
- Bronze medalist of XVI Central European Olympiad in Informatics (2009)
- Bronze medalist of XIII Baltic Olympiad in Informatics (2007)
- Laureate of LX Polish Olympiad in Mathematics (2009)
- Finalist of XIII Polish Olympiad in Informatics (2006)
- Finalist of LVIII Polish Olympiad in Mathematics (2007)

**Work Experience** **Science project on algorithmic graph theory**

Project *Graphs within graphs* under supervision of Dr. Marcin Kamiński, on University of Warsaw (2012 – 2014)

**Software Developer Engineer in Google Corporation, Irvine, CA**

Summer internship in 2013, Google Analytics team

**Software Developer Engineer in Microsoft Corporation, Redmond, WA**

Summer internship in 2012, Server Tools and Business division

**Software Developer in Future Processing, Poland**

Worked on Adaptive Vision Studio in 2011 — rapid machine vision development environment.