# Pavel Rytir, Ph.D.

## curriculum vitae

Center for Algorithms and Interactive Scientific Software The City University of New York 160 Convent Avenue New York, NY 10031 http://kam.mff.cuni.cz/~rytir http://www.linkedin.com/in/rytirpavel

#### Summary

I received my Ph.D. from the Charles University in Prague in 2013. I am currently a computer scientist working as a postdoctoral researcher at the City University of New York. My research is a combination of computer science, combinatorics, topology, coding theory and statistics.

### Education

Charles University in Prague, Czech Republic. Faculty of Mathematics and Physics. <b>Ph.D. in Computer Science.</b>	10/2007 - 07/2013
Charles University in Prague, Czech Republic. Faculty of Mathematics and Physics. M.S. in Computer Science, Discrete Mathematics and Optim	10/2001 - 05/2007 ization.
Work experience	
Postdoctoral scientific researcher	01/2014 – to date
Center for Algorithms and Interactive Scientific Software, The City Un Research topic: Approximations algorithms, permanent bounds, conve	niversity of New York. x optimization.
<b>Junior scientific researcher</b> Department of Applied Mathematics, Charles University in Prague.	10/2007 - 12/2013
Java developer and analyst 1.PF s.r.o., Prague, Czech Republic	02/2007 - 10/2013
Developing web applications in banking and educational industry, Java Firebird DB.	a, Tomcat, Oracle,
Computer skills Java, C++, Python, SQL, web-dev, linux	
Professional service	

Organizer of Midsummer Combinatorial Workshop XVIII, Prague.	2012
Organizer of Midsummer Combinatorial Workshop XV, Prague.	2009

⊠ prytir@ccny.cuny.edu

⊠ rytirpavel@gmail.com

## Seminar talks

Polytechnic University of Catalonia, Barcelona, Spain.	November 2012
Simon Fraser University, Burnaby, Canada.	November 2011
Center for Nonlinear Studies, Los Alamos National Lab., USA.	February 2011
Teaching experience	
Teaching assistant at Charles University, Prague.	
• Discrete Mathematics	Fall 2007, 2008, 2009, 2012
• Combinatorics and Graph Theory I	Spring 2008, 2009, 2013
Adjunct assistant professor at the City University of New York.	
• Discrete Mathematical Structures	Spring, Fall 2015, 2016
• Introduction to Computing in C++	Fall 2015
• Computability	Spring 2016
Languages	

English: fluent Czech: native

## Papers in refereed journals

- P. Rytíř. Geometric representations of linear codes. Advances in Mathematics 282 (2015) 1–22.
- P. Rytíř. Geometric representations of binary codes and computation of weight enumerators. Advances in Applied Mathematics 45 (2010) 290–301.

### Papers in refereed conference proceedings

• M. Loebl and P. Rytíř. Binary linear codes, dimers and hyperdeterminants. 10th Random Generation of Combinatorial Structures (GASCom), (2016).

### Theses

• P. Rytíř. Geometric and algebraic properties of discrete structures. PhD thesis, Faculty of Mathematics and Physics, Charles University in Prague, 2013. http://kam.mff.cuni.cz/~rytir/papers/rytirphdthesis.pdf

## Papers submitted for publication

• P. Rytíř. Geometric representations of binary codes embeddable in three dimensions. *Preprint, arXiv*, 1212.1056, 2012.