

Richard (Yang) Peng

Contact

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Professional Preparation

- *Postdoctoral Instructor in Applied Mathematics*,
Department of Mathematics, Massachusetts Institute of Technology, 2013 - 2015,
Supervisor: Professor Jonathan A. Kelner.
- *Ph.D. in Computer Science*,
Carnegie Mellon University, 2009 - 2013,
Advisor: Professor Gary L. Miller,
Thesis: Algorithm Design using Spectral Graph Theory.
- *B. Math*,
University of Waterloo, 2006 - 2009,
Double major in Computer Science and Combinatorics & Optimization.

Employment

- *Assistant Professor*, Georgia Institute of Technology, 2015 - present.
- *Research Intern*, Microsoft Research New England, summer 2011.
- *Software Engineering Intern*, Google Seattle, summer 2009.
- *Undergraduate Research Assistant*, University of Waterloo, summer 2008.

Teaching

- *Course Instructor*
 - CS 7540 Spectral Algorithms, Georgia Tech, Winter/Spring 2017.
 - CS 3510 Design and Analysis of Algorithms, Georgia Tech, Fall 2016.
 - CS 8803-SA Sampling Algorithms, Georgia Tech, Fall 2015.
 - 18.434 Seminar in Theoretical Computer Science, M.I.T., Winter/Spring 2015.
 - 6.046/18.410 Design and Analysis of Algorithms, M.I.T., co-taught with Konstantinos Daskalakis and Dana Moshkovitz, Fall 2014.
 - Mini-Course on Algorithmic Graph Theory, CMU, Fall 2012.

- *Teaching Assistant*
 - 18.03 Differential Equations, M.I.T., Winter/Spring 2014.
 - 18.310 Principles of Discrete Applied Mathematics, M.I.T., Fall 2013.
 - 15-451 Algorithms, CMU, Winter/Spring 2011.
 - 15-750 Graduate Algorithms, CMU, Winter/Spring 2010.

Service

- *Conference Program Committees*: RANDOM 2017, WADS 2017, SPAA 2017, APPROX 2016, FOCS 2015.
- *Reviewer for*:
 - *Conferences*: CCC 2012; COLT 2016; ESA 2016, 2015, 2013; FOCS 2016, 2015, 2014, 2013; ICALP 2016; NIPS 2016; PODC 2016; SOCG 2015; SODA 2017, 2016, 2015, 2013; SPAA 2014; STOC 2017, 2016, 2015, 2014.
 - *Journals*: ALGO, JACM, RSA, SICOMP, SIDMA, SIMAX, SIOPT, SISC, TCS, TKDD, TOC.
- *Organizer, CMU Theory Lunch*, CMU, Winter/Spring 2012.
- *Programming Contests*
 - Coach for USA Computing Olympiad (USACO), 2006 - present.
 - Problem setter for International Olympiad in Informatics (IOI), Host Scientific Committee: 2008, 2009, 2010; Problem setter: 2011, 2013; International Scientific Committee (elected): 2014 - present.
 - Helping with collegiate programming teams: MIT 2013 - 2015, CMU 2010 - 2013, University of Waterloo 2008 - 2009.

Awards

- *CMU SCS Dissertation Award*, 2013.
- *Microsoft Research PhD Fellowship*, 2011.
- *Scholarships*:
 - Natural Sciences and Engineering Research Council of Canada (NSERC): Postgraduate Scholarship-Doctoral, 2010 - 2011, Postgraduate Scholarships-Master's, 2009 - 2010, Undergraduate Student Research, May - August 2008.
 - J.S. Graham National Scholarship from the University of Waterloo: 2006 - 2009.
- *Mathematics / Programming Competitions*:
 - ACM-ICPC International Collegiate Programming Contest: 1st at the 2007 East Central North American regionals, 9th at the 2008 ACM-ICPC World Finals.

- International Olympiad in Informatics (IOI): Silver medal (2004), Gold medal (2005), Silver medal (2006).
- International Math Olympiad (IMO): Silver medal (2005), Bronze medal (2006).

Hobbies and Interests

- *Sports*: ice/floor hockey, baseball/softball, pingpong, and starcraft 1/2.
- *Programming Competitions*: occasionally volunteers as practice partner / punching bag for active contestants. User id rpeng on websites, ratings:
 - TopCoder: 2509,
 - Codeforces: 2242.