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## Education

- 9/2009–current **Pursuing a PhD in Computer Science**, *Massachusetts Institute of Technology*.  
Research Advisor: Prof. Piotr Indyk, MIT CSAIL.  
Expected graduation: 6/2013.  
Interests: sparse recovery, compressive sensing, algorithms, data structures.
- 9/2010 **Master of Engineering in Electrical Engineering and Computer Science**, *Massachusetts Institute of Technology*.  
Thesis: Algorithms and Lower Bounds for Sparse Recovery. Supervised by Piotr Indyk.
- 9/2005–6/2009 **Bachelor of Science in Computer Science and Engineering**  
**Bachelor of Science in Mathematics**, *Massachusetts Institute of Technology*.  
Departmental GPAs: 5.0/5.0 (each); overall GPA: 4.9/5.0.

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## Awards

### **Simons Graduate Fellowship in Theoretical Computer Science.**

Fellowship recipient, 2012

### **NSF Graduate Research Fellowship Program.**

Fellowship recipient, 2009

### **ACM International Collegiate Programming Contest.**

8th place team, 2009 World Finals, Stockholm, Sweden

4th place team, 2007 World Finals, Tokyo, Japan

### **William Lowell Putnam Mathematics Competition.**

6-15 place bracket, 2006

7-16 place bracket, 2005

### **International Olympiad in Informatics.**

Perfect score, 2005, Nowy Sacz, Poland

Silver medal, 2004, Athens, Greece

### **International Mathematical Olympiad.**

Gold medal, 2005, Merida, Mexico

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## Work Experience

- 6/2012–8/2012 **Microsoft Research**, *Cambridge, MA*, Research intern.  
Research on streaming algorithms and coding theory.
- 6/2011–8/2011 **IBM Research**, *Almaden, CA*, Research intern.  
Research with David P. Woodruff. Simplified lower bounds for compressive sensing.
- 6/2010–8/2010 **Google**, *New York, NY*, Research intern.  
Developed theoretical justification for a heuristic used in large scale machine learning.
- 6/2007–8/2007 **Google**, *Mountain View, CA*, Software engineering intern.  
Examined risk associated with Google Checkout and Adwords transactions.

6/2006–8/2006 **D. E. Shaw**, *New York, NY*, Quant intern.

Worked on evaluating models to analyze risk in a stock portfolio.

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## Papers

- **Lower Bounds for Adaptive Sparse Recovery.** Eric Price and David P. Woodruff. SODA 2013.
- **Applications of the Shannon-Hartley Theorem to Data Streams and Sparse Recovery.** Eric Price and David P. Woodruff. ISIT 2012.
- **Nearly Optimal Sparse Fourier Transform.** Haitham Hassanieh, Piotr Indyk, Dina Katabi, and Eric Price. STOC 2012.
- **Simple and Practical Algorithm for Sparse Fourier Transform.** Haitham Hassanieh, Piotr Indyk, Dina Katabi, and Eric Price. SODA 2012.
- **On the Power of Adaptivity in Sparse Recovery.** Piotr Indyk, Eric Price, and David P. Woodruff. FOCS 2011.
- **$(1 + \epsilon)$ -approximate sparse recovery.** Eric Price and David P. Woodruff. FOCS 2011.
- **K-Median Clustering, Model-Based Compressive Sensing, and Sparse Recovery for Earth Mover Distance.** Piotr Indyk and Eric Price. STOC 2011.
- **Compressive Sensing with Local Geometric Features.** Rishi Gupta, Piotr Indyk, Eric Price, and Yaron Rachlin. SOCG 2011.
- **Efficient Sketches for the Set Query Problem.** Eric Price. SODA 2011.
- **Sparse Recovery for Earth Mover Distance.** Rishi Gupta, Piotr Indyk, and Eric Price. Allerton (invited paper) 2010.
- **Lower Bounds for Sparse Recovery.** Khanh Do Ba, Piotr Indyk, Eric Price, and David P. Woodruff. SODA 2010.
- **Confluently Persistent Tries for Efficient Version Control.** Erik Demaine, Stefan Langerman, and Eric Price. SWAT 2008.
- **Browser-Based Attacks on Tor.** Timothy G. Abbott, Katherine J. Lai, Michael R. Lieberman, and Eric C. Price. PET 2007.

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## Talks

- Weizmann Institute of Science, Rehovot, Israel. *Adaptive Sparse Recovery*, December 2012.
- Coding, Complexity, and Sparsity Workshop, Ann Arbor, MI. *Improved Concentration Bounds for Count-Sketch*, August 2012.
- Workshop on Streaming Algorithms, Dortmund, Germany. *Nearly Optimal Sparse Fourier Transform*, July 2012.
- ISIT, Cambridge, MA. *Applications of the Shannon-Hartley Theorem to Data Streams and Sparse Recovery*, July 2012.
- STOC, New York, NY. *Nearly Optimal Sparse Fourier Transform*, May 2012.
- Carnegie Mellon University, Pittsburgh, PA. *Nearly Optimal Sparse Fourier Transform*, April 2012.
- Carnegie Mellon University, Pittsburgh, PA. *Adaptive Sparse Recovery*, April 2012.
- Johns Hopkins University, Baltimore, MD. *On the Power of Adaptivity in Sparse Recovery*, February 2012.
- SODA, Kyoto, Japan. *Simple and Practical Algorithm for Sparse Fourier Transform*, January 2012.
- SIAM Minisymposium on Computational Geometry, Boston, MA. *Geometric Aspects of Compressive Sensing*, January 2012.

- Berkeley University, Berkeley, CA.  $(1 + \epsilon)$ -approximate sparse recovery, November 2011.
- FOCS, Palm Springs, CA. *On the Power of Adaptivity in Sparse Recovery*, October 2011.
- Coding, Complexity and Sparsity Workshop, Ann Arbor, MA. *On the Power of Adaptivity in Sparse Recovery*. August 2011.
- IBM Research, Almaden, CA. *On the Power of Adaptivity in Sparse Recovery*. June 2011.
- STOC, San Jose, CA. *K-Median Clustering, Model-Based Compressive Sensing, and Sparse Recovery for Earth Mover Distance*, June 2011.
- Microsoft Research New England, Cambridge, MA. *Survey on Compressive Sensing*, May 2011.
- IBM Research, Almaden, CA. *Efficient Linear Sketches for Sparse Recovery*. January 2011.
- SODA, San Francisco, CA. *Efficient Sketches for the Set Query Problem*, January 2011.
- Bar Ilan University, Ramat Gan, Israel. *Efficient Linear Sketches for Sparse Recovery*. December 2010.
- Technion, Haifa, Israel. *Efficient Linear Sketches for Sparse Recovery*. December 2010.
- Google Research Seminar, New York, NY. *Efficient Linear Sketches for Sparse Recovery*. July 2010.
- SODA, Austin, TX. *Lower Bounds in Compressed Sensing*. January 2010.
- CSAIL Student Workshop, Gloucester, MA. *Lower Bounds in Compressed Sensing*. September 2009.
- Center for Massive Data Algorithmics (MADALGO), Aarhus, Denmark. *Lower Bounds in Compressed Sensing*. April 2009.
- CSAIL Student Workshop, Gloucester, MA. *Fully Persistent Hash Tables*. September 2008.
- SWAT, Gothenburg, Sweden. *Confluently Persistent Tries for Efficient Version Control*. July 2008.

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## Other Projects

- 6/2012– **NewsDiffs.**  
 Developed a service to monitor changes to news stories on websites such as the New York Times and CNN. Cited by the New York Times' Public Editor when discussing controversial edits. See <http://www.newsdiffs.org/>.
- 10/2007–10/2008 **SIPB XVM service.**  
 Developed a service to allow MIT students to create and manage virtual machines through web- and command-line interfaces. Managed 200+ virtual machines for 100+ users. See <http://xvm.mit.edu/>.

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## Teaching

- Fall 2008 **Teaching Assistant for 6.02, Introduction to EECS II.**  
 Taught introductory signal processing, coding theory, and network routing. Responsibilities included teaching recitations, holding office and lab hours, and writing homework solutions.