

# Nikolay Archak

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## Education

Ph.D., Information Systems, New York University, Leonard N. Stern School of Business, 2006 - now (current status: All But Dissertation)  
M.Phil., Information Systems, New York University, Leonard N. Stern School of Business, 2006 - 2009 *GPA 4.0*  
Eng. Diploma, Math/Computer Science, St.Petersburg State University, Russia, 1997-2002, *cum laude*

## Industrial Experience

### Google Research

Summer and Winter Intern

New York, NY  
Summer and Winter 2009

Building scalable statistical models for the analysis of advertising data.

### D.E.Shaw & Co., L.P.

Summer Intern

New York, NY

Summer 2008

Design and development of the resource distribution and allocation algorithm for the proprietary trading system.

### Samsung Electronics, Mobile Comm. Division

Software Engineer, Assistant Manager

Suwon, South Korea

2003–2005

**Main Project:** Samsung MITs (Mobile Intelligent Terminal) M400 navigation software.

### OKTET Ltd.

Software Engineer

St.Petersburg, Russia

1999-2002

Development of real-time software for networks and telecommunications.

## Honors and Awards

2007 TCCC Software Design <b>Champion</b> , \$25,000 Prize	2007 TCCC Algorithm Semifinalist
2007 TCO Algorithm Semifinalist	2006 TCCC Software Design <b>Champion</b> , \$25,000 Prize
2006 TCCC Algorithm Semifinalist	2006 Global Google Code Jam Finalist
2006 Google Code Jam Europe Finalist	2006 TCO Software Design <b>2nd Place</b> , \$10,000 Prize
2006 TCO Algorithm Semifinalist	2005 TopCoder Coder of The Month (November)
2005 TCO Software Design <b>Champion</b> , \$20,000 Prize	2005 Global Google Code Jam Finalist
2005 TCO Algorithm Finalist	2004 TCO Algorithm Quarter Finalist

TCO = TopCoder Open, TCCC = TopCoder Collegiate Challenge

## Programming Skills

C++, Java, C#, Perl, UML, SQL, MATLAB

## Academic Experience (Publications)

1. N. Archak, “*Money, glory and cheap talk: analyzing strategic behavior of contestants in simultaneous crowdsourcing contests on TopCoder.com*”, Proceedings of the 19th International World Wide Web Conference (WWW 2010)
2. N. Archak, V. Mirrokni, and S.Muthukrishnan, “*Mining Advertiser-specific User Behavior Using Adfactors*”, Proceedings of the 19th International World Wide Web Conference (WWW 2010)
3. N. Archak and A. Sundararajan, “*Optimal Design of Crowdsourcing Contests*”, Proceedings of the 30th International Conference on Information Systems (ICIS 2009)
4. N. Archak and P. Ipeirotis, “*Modeling Volatility in Prediction Markets*”, Proceedings of the 10th ACM SIGECOM International Conference on Electronic Commerce (EC 2009)
5. N. Archak, A. Ghose and P. Ipeirotis, “*Show me the money! Deriving the Pricing Power of Product Features by Mining Consumer Reviews*”, Proceedings of the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2007)

## Patents

“Mining Advertiser-specific User Behavior Using Adfactors”, US Patent (61/257,393) pending.

## Teaching Experience

**Instructor**, Statistics for Business Control (undegraduate), NYU Stern, Spring 2010