

# Efraim Berkovich

## Curriculum Vitae

**Address:** Department of Economics  
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University of Pennsylvania  
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### Education:

Ph.D. in Economics, University of Pennsylvania, 2009  
Dissertation: "Essays in search and herding," Advisor: Randall Wright  
M.S. in Electrical Engineering, University of Maryland-College Park, 1998  
Concentrations in Telecommunications and Computer Architecture  
Thesis: "An explicit multi-threaded architecture and directed acyclic graphs" Advisor: Uzi Vishkin  
B.S. in Mathematics *magna cum laude*, Georgetown University, 1994

### Research Papers and Publications:

#### *Economics*

"Herding and crowding to efficiency," (2009) (with R. Tayon) *Working paper*  
"Uncertain completion and gradual investment," (2009) *Working paper*  
"Search and herding effects in peer-to-peer lending: Evidence from Prosper.com," (2009) *Working paper*  
"Cross-subsidization of consumers in the payment card market," (2009) *Working paper*

#### *Computer Engineering*

"Explicit Multi-threaded (XMT) bridging models for instruction parallelism," *Symposium on Parallel Algorithms and Architectures (SPAA)*, 1998. (with U. Vishkin, S. Dascal, J. Nuzman)  
"A Combinatorial Architecture for Instruction-Level Parallelism," *Microprocessors and Microsystems*, 1998, (with S. Berkovich)  
"Modeling of a Forced Interrupt Microprocessor Pipeline," *LASTED International Conference on Modelling and Simulation*, 1997 (with S. Berkovich, R. Davis, M. H. Loew, M. Zaghoul)

#### *Mathematics*

"Solving the diophantine equation  $1/Ax + 1/By = 1/C$ ," *Pi Mu Epsilon Journal*, 1995

#### *Software Engineering, Non-refereed*

"Graphs for security: Presenting the ACG datastructure," *JavaWorld*, 2004  
"Summations for fast counting," *C/C++ Users Journal*, 2003  
"Take Java to task: Building your own Java component to run and schedule tasks is easy with two new JDK classes," *JavaPro Journal*, 2002

**Research Interests:** Credit, Finance and Risk, Asset Markets, Monetary Economics, Management

**Teaching Interests:** Microeconomics, Monetary Economics, International Economics, Corporate Finance

### Teaching Experience:

*Recitation Instructor, University of Pennsylvania:* Intro. Microeconomics (Standard and Honors) (4 semesters), Intro. Macroeconomics (1 semester), Managerial Economics at the Wharton School (3 semesters)

*Teaching Assistant, University of Pennsylvania:* Labor Economics (1 semester)

*Instructor, College of General Studies, University of Pennsylvania:* International Trade and Finance (2 semesters)

**Non-academic Work Experience:**

Consultant, NACS, Washington, DC (2009)

Consultant, World Bank – Doing Business Reform Unit, Washington DC (2009)

Technical Architect, AXA Financial, New York NY (2000-2002)

Chief Technology Officer, RedCone.com, New York NY (2000)

Programmer Analyst, Sanford C. Bernstein & Company, New York NY (1998-2000)

Software Engineer, Integration Technologies Group, Falls Church VA (1996-1998)

Software Engineer, Information Concepts (consulting at NASD in Gaithersburg, MD) (1994-1996)

**Additional:**

Languages: English (native), Russian

U.S. Patents:

- 09/973,792 “Method of and system for searching a data dictionary with fault tolerant indexing”, 2001
- 5,619,680 "Methods and Apparatus for Concurrent Execution of Serial Computing Instructions Using Combinatorial Architecture for Program Partitioning", 1997

**Employment Interests:**

Academic, Government and Private Sector

**Date of Availability:**

January 2009

**References:**

Professor Randall D. Wright

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Professor Kenneth Burdett

Phone: +1 (215) 898 6774

E-mail: [kennethb@econ.upenn.edu](mailto:kennethb@econ.upenn.edu)

Professor Philipp Kircher

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