

Bahareh Esfahbod

Résumé

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Education

- 2012 - present **M.Sc.**, *University of Saskatchewan*, Saskatoon, SK, Canada.
Computer Science.
- 2004 - 2007 **M.Sc.**, *Tehran University*, Tehran, Iran.
Pure Mathematics (Combinatorics and Design Theory).
GPA: 79%
- 2000 - 2004 **B.Sc.**, *Amirkabir University of Technology*, Tehran, Iran.
Applied Mathematics.
GPA: 80%
- 1995 - 1999 **Diploma**, *National Organization for Development of Exceptional Talents*, Iran.
Math. & Physics Discipline.

Master Theses

Computer Science

- Subject Theoretical Computer Science (Chordal Graphs and Graph Visualization)
Supervisor Professor Mark Keil

Mathematics

- Title *Studies on 3-Legged Trades*
Supervisor Professor G.B. Khosrovshahi

Awards and Achievements

- February 2013 **2nd Team Rank**, *University of Saskatchewan*, Saskatoon, Canada.
Programming Contest, CS Department, Open Category.
- March 2012 **Certificate of Appreciation**, *Brain Blast 2012*, Saskatoon, Canada.
Brain awareness week 2012.
- Summer 2004 **4th Rank**, *Tehran University*, Tehran, Iran.
Among all applicants for M.Sc. of mathematics.
- Spring 2004 **41st Rank**, *NOET*, Tehran, Iran.
National entrance exam for Masters program.
- Summer 2002 **Honorable Prize**, *IMC 2002*, Warsaw, Poland.
9th International Mathematics Competition.
- Spring 2002 **3rd Team Rank**, *National Math. Competition*, Zanjan, Iran.
Member of Amirkabir University team.

- Fall 2001 **21st Team Rank**, *ACM ICPC*, Tehran, Iran.
Regional Contest.
- Spring 2001 **1st Rank**, *National Math. Competition*, Qazvin, Iran.
Combinatorics section of Mathematics Competition for University Students.
- Spring 2001 **6th Team Rank**, *National Math. Competition*, Qazvin, Iran.
Member of Amirkabir University team.
- Summer 1998 **Bronze Medal**, *National Olympiad*, Tehran, Iran.
8th National Olympiad in Informatics.

Research Interests

Graph Theory and Design Theory
Algorithms and Complexity
Algebraic and Classical Combinatorics

Technical Skills

Programming	C/C++, Coq, Haskell, Pascal, Prolog
Scripting	HTML, \LaTeX
Other	Vensim, Mathematica, PhotoShop, Gimp, MS Office
Oper. Systems	MS Windows, Ubuntu

Experiences

Academic

- Fall 2012 **Teaching Assistant**, *University of Saskatchewan*, Saskatoon, Canada.
Mathematical Logic and Computing.
- Fall 2012 **Marking**, *University of Saskatchewan*, Saskatoon, Canada.
Theory and Application of Data Bases.
- Summer 2011 – present **Math. Tutoring**, *University of Saskatchewan*, Saskatoon, Canada.
Elementary and Vector Calculus, Differential Equations, Linear Algebra & Statistics.
- Winter & Spring 2010 **Instructor**, *Payam e Noor University*, Tehran, Iran.
Discrete Math., Graph Theory, and Multivariate Calculus.
- Winter & Spring 2010 **Instructor**, *Payam e Noor University*, Damavand, Iran.
Operations Research II, Numerical Linear Algebra, and Linear Programming.
- Fall 2009 **Instructor**, *Payam e Noor University*, Tehran, Iran.
Discrete Math. and Multivariate Calculus.
- January 2009 – July 2009 **Scientific editor**, *Sabz Publication*, Tehran, Iran.
Math. and Physics books for high school.
- December 2008 **Implementing Tabu Search**, Tehran, Iran.
An iterative procedure designed for the solution of optimization problems in Mathematica.
- June 2006 – February 2009 **Scientific editor**, *Ramzine Publication*, Tehran, Iran.
Math. and Physics books for high school.

- Fall 2006 **Problem-set designer**, *Pasargad institution*, Tehran, Iran.
Designing problem sets for Master program entrance.
- Spring 2006 **Programme Committee**, *IMS*, Tafresh, Iran.
30th National Mathematics Competition for University Students.
- Winter & Spring 2004 & 2005 **Teaching Assistant**, *Amirkabir University of Technology*, Tehran, Iran.
Foundations of Mathematics.
- Winter & Spring 2004 **Teaching Assistant**, *Amirkabir University of Technology*, Tehran, Iran.
Foundations of Mathematics.
- Winter 2004 **Teacher**, *Arak's Farzanegan High School*, Arak, Iran.
Foundations of Mathematics and Computer Science for National Olympiad.
- July 2003 – December 2003 **FarsiWeb Project**, *Sharif University of Technology*, Tehran, Iran.
Internationalization and Persian localization of computer systems.
- Fall 1998 – Spring 2000 **Teacher**, *Farzanegan & Alzahra High Schools*, Sari, Iran.
Foundations of Mathematics and Computer Science for National Olympiad.

Other

- June – December 2012 **Researcher and Programmer**, *Galex Group*, Saskatoon, Canada.
Finding statistical algorithms for comparing data.
- Fall 2011 – Spring 2012 **Chronic Wasting Disease Project**, *University of Saskatchewan*, Saskatoon, Canada.
Modelling real data and data analysis using *Vensim* simulation software.
- 2007 – 2010 **Executive director**, *Chahar Barg Pakat Co*, Tehran, Iran.
Also a board member of the company.

Languages

- Persian **Fluent**, *Native*.
- English **Fluent**, *TOEFL iBT 83*.