

Baharak Rastegari

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Education

- *Ph.D. in Computer Science* 09/2004—present
University of British Columbia, Vancouver, BC, Canada
Research interests: Game theory, algorithm design and theoretical computer science.
Current research: Revenue concerns in combinatorial auctions, applications of matching.
Supervisors: Prof. Anne Condon and Prof. Kevin Leyton-Brown.
- *M.Sc. in Computer Science* 09/2002—08/2004
University of British Columbia, Vancouver, BC, Canada
Thesis title: “Linear Time Algorithm for Parsing RNA Secondary Structure”.
Supervisor: Prof. Anne Condon.
- *B.Sc. in Computer Engineering (Software)* 09/1998—07/2002
Sharif University of Technology, Tehran, Iran
Thesis title: “Pascal Interpreter”.
Supervisor: Dr. Ghasem Jaberipour.

Publications

Journal articles

- B. Rastegari, A. Condon and K. Leyton-Brown: [Revenue Monotonicity in Deterministic, Dominant-Strategy Combinatorial Auctions](#), *Artificial Intelligence Journal (AIJ)*, 175(2): 441—456, February 2011.
- B. Rastegari and A. Condon: [Parsing Nucleic Acid Pseudoknotted Secondary Structure: Algorithm and Applications](#), *Journal of Computational Biology*, 14(1): 16—32, 2007.
- J. Ren, B. Rastegari, A. Condon and H.H. Hoos: [HotKnots: Heuristic Prediction of RNA Secondary Structures Including Pseudoknots](#), *RNA*, 11(10): 1494—1504, 2005.
- (*) A. Condon, B. Davy, B. Rastegari, F. Tarrant and S. Zhao: [Classifying RNA Pseudoknotted Structures](#), *Theoretical Computer Science*, 320(1): 35—50, 2004.

Conferences

- B. Rastegari, A. Condon and K. Leyton-Brown: [Stepwise Randomized Combinatorial Auctions Achieve Revenue Monotonicity](#), *Proceedings of the Twentieth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA'09)*, 738—747, 2009 (29% acceptance rate).
- B. Rastegari, A. Condon and K. Leyton-Brown: [Revenue Monotonicity in Combinatorial Auctions](#), *Proceedings of the Twenty-Second AAAI Conference in Artificial Intelligence (AAAI'07)*, 122—127, 2007 (27% acceptance rate).
- B. Rastegari and A. Condon: [Linear Time Algorithm for Parsing RNA Secondary Structure](#), *Fifth Workshop on Algorithms in Bioinformatics (WABI'05), Lecture Notes in Bioinformatics*, 3692: 341—352, 2005 (37% acceptance rate).

Lightly refereed or unrefereed journals

- B. Rastegari, A. Condon and K. Leyton-Brown: [Revenue Monotonicity in Combinatorial Auctions](#), *SIGecom Exchanges, Special issue on combinatorial auctions*, 7(1): 3 pages, December 2007.

Posters and Presentations

- B. Rastegari, A. Condon and K. Leyton-Brown: [Stepwise Randomized Combinatorial Auctions Achieve Revenue Monotonicity](#), Presentation in the *Twentieth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2009)*, New York, NY, USA.
- B. Rastegari, A. Condon and K. Leyton-Brown: [Revenue Monotonicity in Combinatorial Auctions](#), Presentation in *Informs annual meeting, 2007*, Seattle, Washington, USA.
- B. Rastegari, A. Condon and K. Leyton-Brown: [Revenue Monotonicity in Combinatorial Auctions](#), Presentation in the *Twenty-Second AAAI Conference in Artificial Intelligence (AAAI 2007)*, Vancouver, BC, Canada.
- B. Rastegari and A. Condon: [Linear Time Algorithm for Parsing RNA Secondary Structure](#), Presentation in the *First Annual Western Canada RNA Conference (RiboWest 2005)*, Prince George, BC, Canada.
- (**) A. Condon, B. Davy, B. Rastegari, F. Tarrant and S. Zhao: [Understanding RNA Pseudoknotted Structures](#), Poster presentation and 2-page abstract in the *Proceedings of the Eight Annual International Conference on Research in Computational Molecular Biology (RECOMB 2004)*, San Diego, CA, USA. Also poster presentation and 1-page abstract in *Research Exchange 2004*, hosted by Genome British Columbia, Vancouver, BC, Canada.

Awards and Honors

- *Received Student Service Award* 2008
Department of Computer Science, University of British Columbia, Vancouver, Canada
- *Received University Graduate Fellowship (16000\$CAN)* 2007-2008
University of British Columbia, Vancouver, Canada
- *Received International Partial Tuition Fellowship (3600\$CAN per year) 2002-2004*
University of British Columbia, Vancouver, Canada
- *Ranked 5th and won the best women team title* 2001
ACM Programming Contest, Asia region, Tehran site
- *Ranked 176th in the University Entrance Exam, Iran* 1998
Out of more than 300,000 applicants
- *Awarded Silver Medal, National Informatics Olympiads, Iran* 1997

Selected Teaching Experience

- *Presented tutorials and held Q&A sessions, UBC* 2006 (June-July)
Intermediate algorithm design and analysis, 3rd year undergraduate course
- *Taught several sessions and held Q&A sessions, UBC* 2006 (Jan-April)
Algorithms for bioinformatics, 4th year undergraduate course
- *Held Q&A sessions, UBC* 2004 (Sep-Dec)
Algorithms for bioinformatics, graduate and 4th year undergraduate course
- *Taught, Karaj, Iran* 2001 (April)
Informatics Olympiad preparation course

Workshops

- *Attended Instructional Skills Workshop (ISW)* 2010 (December)
24 hours, UBC

Professional Services

- *Reviewed research articles for*
 - Operations Research
 - JAIR
 - IJCAI 2007, 2011
 - AAAI 2007, 2011
 - AAMAS 2007, 2008
 - EC 2007, 2008, 2009
 - SODA 2008
 - AMMA 2009
- *Acted as the Secretary to UBC Persian Music Ensemble AMS club* 2010-2011
- *Acted as a Computer Science Graduate Student Association (CSGSA) representative in the Faculty Affairs Committee* 2009-2010
Elected position, Department of CS, UBC
- *Acted as a CSGSA representative in the Graduate Affairs* 2007-2009
Elected position, Department of CS, UBC
- *Acted as a CSGSA representative in the Focus on Women in Computer Science (FoWCS) committee* 2005-2010
Elected position, Department of CS, UBC
- *Co-organized [GirlsMarts workshop](#) for 3 years* 2006-2008
The workshop is affiliated with the Department of CS, UBC, and aims to teach grade 6 girls about computer science
- *Organized Graduate Seminars* 2006
CSGSA elected position, Department of CS, UBC
- *Organized Computer Science Coffee House* 2005
CSGSA elected position, Department of CS, UBC
- *Taught in [GirlsMarts workshop](#) for 2 years* 2004-2005
Volunteer work

(*) (**): I am the lead author in both, but since the main work, (*), was sent to a theoretical journal, authors are listed in alphabetical order.