Curriculum Vitae: Ofra Amir

Personal Details

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Higher Education

Harvard University, Ph.D., Computer Science — Dec. 2016
Thesis title: Intelligent Information Sharing to Support Loosely-Coupled Teamwork
Advisor: Prof. Barbara Grosz

Ben-Gurion University, M.Sc., summa cum laude, Information Systems Engineering — 2011
Thesis title: Plan Recognition and Information Visualization in Exploratory Learning Environments
Advisor: Dr. Kobi Gal

Ben-Gurion University, B.Sc., summa cum laude, Information Systems Engineering — 2010

Professional Experience

The Technion - Israel Institute of Technology
Lecturer — Sept. 2017 –

School of Engineering and Applied Sciences, Harvard University
Postdoctoral fellow — Jan. 2017 – June 2017
Advisor: Prof. Barbara Grosz

School of Engineering and Applied Sciences, Harvard University
Lecturer — Jan. 2017 – June 2017
Instructor for CS 179: Design of Useful and Usable Interactive Systems

School of Engineering and Applied Sciences, Harvard University
Research assistant — Sep. 2012 – Dec. 2016
Advisor: Prof. Barbara Grosz

Microsoft Research, Redmond, WA
Research intern — Sep. 2015 – Dec. 2015
Mentor: Ece Kamar

Department of Information Systems Engineering, Ben-Gurion University
Researcher — Feb. 2012 – July 2012
Worked with Prof. Lior Rokach

School of Engineering and Applied Sciences, Harvard University
Research assistant — July 2011 – Sep. 2011
Worked in the AI research group with Prof. Barbara Grosz

The Berkman Center for Internet and Society, Harvard University
Research intern — July 2010 – Sep. 2010
Mentor: David Rand

SAP Labs Ra'anana, IL
Software testing engineer (student position) — June 2008 – July 2009

Honors and Awards

Siebel scholarship, class of 2017. — 2016-2017
Rising-stars in EECS, career-building workshop for women — Oct. 2016
Honorable mention, ACM CHI *[for paper C3]* — 2015

Finalist, Microsoft Research Graduate Fellowship 2015
Certificate of Distinction in Teaching, Harvard CS 182 Fall 2014
Certificate of Distinction in Teaching, Harvard CS 280 Spring 2014
Finalist, CIMIT Student Technology in Healthcare Prize ($ 10,000) 2014
Graduate Student Award, Harvard Mind, Brain Behavior ($ 5000) 2014
2nd Prize, Computing Community Consortium/AAMAS Challenges and Visions Track 2013
[For paper C5]
Finalist, Google Anita Borg Scholarship ($ 1000) 2013
Award for Excellence in Teaching, Ben-Gurion University 2010
Dean's Award for Excellence, Ben-Gurion University 2008, 2009, 2010
Outstanding Soldier, Israeli Defense Forces, Military Court Unit 2004

Book Chapters

[b1] **Ofra Amir**, Kobi Gal, David Yaron, Michael Karabinos, and Robert Belford. *Plan Recognition and Visualization in Exploratory Learning Environments*, page 289–327. Springer International Publishing, 2014.

Journal Papers

[j1] Ayelet Eyal, Lior Rokach, Meir Kalech, **Ofra Amir**, Rahul Chougule, Rajkumar Vaidyanathan, and Kallappa Pattada. Survival analysis of automobile components using mutually exclusive forests. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2014.

[j2] **Ofra Amir** and Kobi Gal. Plan recognition and visualization in exploratory learning environments. *ACM Transactions on Interactive Intelligent Systems (TiiS)*, 3:16–1, 2013.

[j3] **Ofra Amir**, David G. Rand, and Kobi Gal. Economic games on the internet: The effect of $1 stakes. *PloS one*, 7:e31461, 2012.

Refereed Conference Publications

[c1] **Ofra Amir**, Barbara Grosz, and Krzysztof Z. Gajos. Mutual influence potential networks: Enabling information sharing in loosely-coupled extended-duration teamwork. In *Proceedings of the Twenty-Fifth international joint conference on Artificial Intelligence (IJCAI'16)*, pages 796–803, 2016.

[c2] **Ofra Amir**, Ece Kamar, Andrey Kolobov, and Barbara J Grosz. Interactive teaching strategies for agent training. In *Proceedings of the Twenty-Fifth international joint conference on Artificial Intelligence (IJCAI'16)*, pages 804–811, 2016.

[c3] **Ofra Amir**, Barbara Grosz, Krzysztof Gajos, Sonja Swenson, and Lee Sanders. From care plans to care coordination: Opportunities for computer support of teamwork in complex healthcare. In *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15)*, pages 1419–1428, 2015 [**honorable mention**].

[c4] **Ofra Amir**, Guni Sharon, and Roni Stern. Multi-agent pathfinding as a combinatorial auction. In *Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI'15)*, pages 2003–2009, 2015.

[c5] **Ofra Amir**, Barbara J Grosz, Edith Law, and Roni Stern. Collaborative health care plan support. In *Proceedings of the 2013 international conference on Autonomous agents and multi-agent systems.*, pages 793–796, 2013 [**Challenges and Visions Track, second prize winner; joint first authorship of all authors**].

[c6] **Ofra Amir**, Yuval Shahar, Kobi Gal, and Litan Ilani. On the verification complexity of group decision-making tasks. In *First AAAI Conference on Human Computation and Crowdsourcing (HCOMP'13)*, 2013.

[c7] **Ofra Amir** and Kobi Gal. Plan recognition in virtual laboratories. In *Proceedings of the Twenty-Second international joint conference on Artificial Intelligence (IJCAI'11)*, pages 2392–2397, 2011.

Workshops & Poster Abstracts

[w1] **Ofra Amir**, Barbara Grosz, and Krzysztof Gajos. Mip-nets: Enabling information sharing in loosely-coupled teamwork. In *AAAI 2016 Student Abstracts*, 2016.

[w2] Sebastian Gehrmann, Lauren Urke, **Ofra Amir**, and Barbara J Grosz. Deploying ai methods to support collaborative writing: a preliminary investigation. In *CHI'15 Extended Abstracts on Human Factors in Computing Systems*. ACM, 2015.

[w3] **Ofra Amir**. To share or not to share? the single agent in a team decision problem. In *AAAI Conference on Artificial Intelligence (doctoral consortium extended abstract)*, 2014.

[w4] **Ofra Amir**, Barbara J Grosz, Krzysztof Z Gajos, Sonja M Swenson, and Lee M Sanders. AI support of teamwork for coordinated care of children with complex conditions. *AAAI Fall Symposium on Expanding the Boundaries of Health Informatics Using AI: Making Personalized and Participatory Medicine A Reality*, 2014.

[w5] **Ofra Amir**, Barbara J Grosz, and Roni Stern. To share or not to share? the single agent in a team decision problem. *Models and Paradigms for Planning under Uncertainty: a Broad Perspective*, page 19, 2014.

[w6] **Ofra Amir**. Information sharing for care coordination. In *Proceedings of the 2013 international conference on Autonomous agents and multi-agent systems (Doctoral Consortium Extended Abstract)*, page 1417–1418, 2013.

[w7] Roni Stern, **Ofra Amir**, Barbara J Grosz, Shira H Fischer, and Lee M Sanders. Augie: A dialogue-augmenting agent for improved health care communication. In *Workshop on Human-Agent Interaction Design and Models (HAIDM)*, 2013.

Papers Under Review

[r1] **Ofra Amir**, Dor Amir, Yuval Shahar, Yuval Hart, and Kobi Gal. The more the merrier? Increasing group size may be detrimental to group decision-making performance. *Submitted to PLOS ONE*, 2017.

[r2] **Ofra Amir**, Limor Gultchin, Barbara J Grosz, and Krzysztof Z Gajos. Personalized information sharing: reducing coordination overhead in loosely-coupled teamwork. *Submitted to ACM Transactions on Intelligent Interactive Systems (TiiS)*, 2017.

Talks

Department of Industrial Engineering Seminar, Ben-Gurion University: "Supporting Information Sharing in Loosely-Coupled Human Teamwork" Jan. 2016

The Nuance Foundation. Cambridge, MA: "Information Sharing for Care Coordination: Opportunities for AI to Support Teamwork in Complex Healthcare". March 2015

IsraHCI - The Third Israeli Human-Computer Interaction Research Conference. Hertzelia, Israel: "From Care Plans to Care Coordination: Opportunities for Computer Support of Teamwork in Complex Healthcare" Feb. 2015

FBK Center for Communication and Information Technology. Trento, Italy: "Information Sharing for Supporting Human Teamwork". Oct. 2014

Department of Information Systems Engineering Seminar, Ben-Gurion University: "Information Sharing for Complex Care Coordination" Jan. 2014

International Conference on Behavioral Decision Making, the Interdisciplinary Center (IDC) Herzliya, Israel: "Economic games on the internet: the effect of $1 stakes" June 2011

Teaching Experience

Instructor at Harvard University

CS 179: Design of Useful and Usable Interactive Systems Spring 2017

Teaching Fellow at Harvard University (avg. student evaluations in parentheses):

CS 179: Design of Useful and Usable Interactive Systems (4.5/5) Spring 2016
CS 280r: Advanced Topics in Artificial Intelligence (4.8/5) Spring 2014
CS 182: Intelligent Machines: Reasoning, Actions, and Plans (4.5/5, 4.6/5) Fall 2013 & 2014

Teaching Fellow at Ben-Gurion University:

Regression and Experimental Design (4.9/5)	Spring 2010 & 2011
Computer Simulation (4.9/5)	Fall 2009 & 2010
Introduction to Data Communications (4.8/5)	Fall 2009

Advising of Undergraduate Students

Tony Li (undergraduate at Harvard)	Sep. 2016 – May 2017
Limor Gultchin (undergraduate at Harvard)	June 2016 – Aug. 2016
Ezra Zigmond (undergraduate at Harvard)	Oct. 2015 – May 2016
Neel Patel (undergraduate at Harvard)	Oct. 2014 – May 2015
Logan Martin (undergraduate at MIT)	June 2014 – Aug. 2014
Sebastian Gehrmann & Lauren Urke (undergraduates at Harvard)	Jan. 2014 – June 2014
Uri Limoni & Sharon Napadenski (undergraduates at BGU)	Oct. 2010 – June 2011

Service

Co-chair, 2016 AAAI Spring Symposium on "Intelligent systems for supporting distributed human teamwork".
Program committee: IJCAI (2017), HAIDM workshop (2016), AAMAS (2015), IJCAI (2015)

Reviewer: IJCAI, AAAI, AAMAS, CHI, CSCW, Journal of Artificial Intelligence Research (JAIR), ACM Transactions on Interactive Intelligent Systems, MobileHCI, IEEE Transactions on Systems Man and Cybernetics, Judgment and Decision Making (JDM), International Journal of Psychology
Co-chair, student committee for CS faculty search, Harvard University, Spring 2014.