

Curriculum Vita (CV) - Amos Azaria

Computer Science Department, Ariel University, Israel

amos.azaria@ariel.ac.il

<http://azariaa.com>

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1 Academic Background

- 2016 - Present: Senior Lecturer at Ariel University, Israel
- 2014 - 2016: Postdoctoral researcher, Machine Learning department, Carnegie Mellon University, Pittsburgh, PA
- 2010 - 2014: PhD in computer science, Bar Ilan University, Ramat-Gan, Israel
Thesis entitled: Automated Agents for Human Persuasion
Supervisors: Prof. Sarit Kraus and Prof. Yonatan Aumann
- 2002 - 2003: B.A. in computer science, outstanding excellence,
The Technion Institute of Technology , Haifa, Israel

2 Publications

2.1 Journals

1. Azaria A, Sarne D, Aumann Y
Distributed Matching with Mixed Maximum-Minimum Utilities, ACM Transactions on Economics and Computation (TEAC) journal, 2017
PDF.
2. Chaudhari S, Azaria A, Mitchell T
An Entity Graph Based Recommender System, AI Communications, 2017
PDF.
3. Subrahmanian VS, Azaria A, Dekhtyar A, Durst S, Stevens A, Kagan V, Galstyan A, Gao S, Kooti F, Lerman K, Liu Y, Zhu L, Ferrara E, Varol O, Shiralkar P, Menczer F, Flammini A, Mei Q, Vydiswaran V, Waltzman R
The DARPA Twitter Bot Challenge, IEEE Computer journal, 2016 (IF: 1.203)
PDF.

4. Azaria A, Richardson A, Rosenfeld A
Automated Agents and Human Cultures in the Trust-Revenge Game
Journal of Autonomous Agents and Multiagent Systems (JAAMAS), 2016 (IF: 1.417)
PDF.
5. Azaria A, Kraus S, Goldman CV, Gal Y
Strategic Advice Provision in Repeated Human-Agent Interactions
Journal of Autonomous Agents and Multiagent Systems (JAAMAS), 30(1):4-29, 2016
(IF: 1.417).
PDF.
6. Azaria A, Rosenfeld A, Karus S, Goldman C V, Tsimhoni O
Advice Provision for Energy Saving in Automobile Climate Control Systems AI Mag-
azine, 36(3):61-72 2015 (IF:0.628)
PDF.
7. Azaria A, Richardson A, Kraus S, VS Subrahmanian
Behavioral Analysis of Insider Threat: A Survey and Bootstrapped Prediction in Im-
balanced Data
IEEE Transactions on Computational Social Systems Journal, 1(2):135-155, 2014 (IF:
n/a)
PDF.
8. Azaria A, Rabinovich Z, Kraus S, Goldman CV
Strategic Information Disclosure to People with Multiple Alternatives, Transactions on
Intelligent Systems and Technology (TIST) ACM Journal, 5(4):64.1-64.21, 2014 (IF:
1.252)
PDF.
9. Azaria A, Aumann Y, Kraus S
Automated Agents for Reward Determination for Human Work in Crowdsourcing Ap-
plications, Autonomous Agents and Multi-Agent Systems, 28(6):934-955, 2014 (IF:
1.254)
PDF
10. Rosenfeld A, Zukerman I, Azaria A, Kraus S
Combining Psychological Models with Machine Learning to Better Predict People's
Decisions, Synthese Journal, 2012. 189:81-93, 2012 (IF: 0.880).
PDF

2.2 Book Chapters

11. Li T, Labutov I, Myers B, Azaria A, Rudnicky A, Mitchell T
An End User Development Approach for Failure Handling in Goal-oriented Conversa-
tional Agents, in Studies in Conversational UX Design, Springer, 2018 PDF

2.3 Highly Refereed Conferences - Full Papers

12. Labutov I., Yang B., Prakash A., Azaria A.
Multi-Relational Question Answering from Narratives: Machine Reading and Reasoning in Simulated Worlds, ACL, 2018 PDF
13. Srivastava S., Azaria A., Mitchell T.
Parsing Natural Language Conversations using Contextual Cues, IJCAI, 2017 PDF
14. Li T., Azaria A., Myers B.
SUGILITE: Creating Multimodal Smartphone Automation by Demonstration, CHI, 2017, **Honorable Mention Award** PDF
15. Huang TH, Lasecki W., Azaria A., Bigham JP.
Is there anything else I can help you with?: Challenges in Deploying an On-Demand Crowd-Powered Conversational Agent, HCOMP, 2016 PDF
16. Azaria A, Hong J
Recommender Systems with a Personality, RecSys, 2016 (Past, Present and Future Track) PDF
17. Azaria A, Krishnamurthy J, Mitchell T
Instructable Intelligent Personal Agent, AAI, 2016
PDF
18. Shvartzon A, Azaria A, Kraus S, Goldman C, Meyer J, Tsimhoni O
Personalized Alert Agent for Optimal User Performance, AAI, 2016 (also appears as a short paper in AAMAS 2015 and HAIDM workshop)
PDF
19. Rosenfeld A, Maksimov O, Agmon N, Azaria A, Kraus S
Intelligent Agent Supporting Human-Multi-Robot Team Collaboration, IJCAI-2105
Best Robotics Video Award PDF.
20. Rosenfeld A, Azaria A, Kraus S, Goldman C, Tsimhoni O
Adaptive Advice in Automobile Climate Control Systems, AAMAS, 2015
(also presented in AAI'15 workshop)
PDF
21. Azaria A, Richardson A, Kraus S
An Agent for Deception Detection in Discussion Based Environments, CSCW, 2015
(also appears as a short paper in AAMAS-2014 and presented in HAIDM workshop in AAMAS 2013 and Israeli IAAI 2014)
PDF
22. Buntain C, Azaria A, Kraus S
Leveraging Fee-Based, Imperfect Advisors in Human-Agent Games of Trust, AAI, 2014
PDF

23. Azaria A, Karus S, Goldman C V, Tsimhoni O
Advice Provision for Energy Saving in Automobile Climate Control Systems, IAAI, 2014
(also appears as an extended abstract in AAMAS 2014)
PDF.
24. Azaria A, Richardson A, Kraus S
An Agent for the Prospect Presentation Problem, AAMAS, 2014
PDF.
25. Azaria A, Hassidim A, Kraus S, Eshkol A, Weintraub O, Netanely I
Movie Recommender System for Profit Maximization, RecSys, 2013
PDF.
26. Nguyen T, Yang R, Azaria A, Kraus S, Tambe M
Analyzing the effectiveness of adversary modeling in security games, AAAI, 2013
(also appears as an extended abstract in AAMAS 2013 and presented in HAIDM 2013)
PDF
27. Bitan M, Gal Y, Kraus S, Dokov E, Azaria A
Social Rankings in Human-Computer Committees, AAAI, 2013
PDF
28. Azaria A, Aumann Y, Kraus S
Automated Strategies for Determining Rewards for Human Work, AAAI 2012
(also presented in HAIDM workshop in AAMAS 2012)
PDF
29. Azaria A, Rabinovich Z, Kraus S, Goldman CV, Gal Y
Strategic Advice Provision in Repeated Human-Agent Interactions, AAAI 2012
(also presented in HAIDM workshop in AAMAS 2012)
PDF.
30. Azaria A, Rabinovich Z, Kraus S, Goldman CV, Tsimhoni O,
Giving Advice to People in Path Selection Problems, AAMAS, 2012
(also presented in Interactive Decision Theory and Game Theory 2011 WS)
PDF.
31. Azaria A, Rabinovich Z, Kraus S, Goldman CV,
Strategic Information Disclosure to People with Multiple Alternatives, AAAI, 2011
(also presented in BISFAI 2011)
PDF.

2.4 Other Conferences, Short Papers or Extended Abstracts

32. Stekel A, Chkroun M, Azaria A
Goldbach's Function Approximation Using Deep Learning, Web Intelligence 2018
PDF

33. Allouch M, Azaria A, Azoulay R, Ben-Izchak E, Zwilling M, Zachor D
Automatic Detection of Insulting Sentences in Conversation, ICSEEI 2018
PDF
34. Chkroun M, Azaria A
“Did I Say Something Wrong?”: Towards a Safe Collaborative Chatbot, AAAI’18
(also presented in DEEP-DIAL workshop in AAAI’18)
PDF
35. Chaudhari S, Azaria A, Mitchell T
An Entity Graph Based Recommender System, RecSys’16 PDF
36. Huang TH, Azaria A, Bigham J
InstructableCrowd: Creating IF-THEN Rules via Conversations with the Crowd,
CHI’16 (LBW track) **Best Paper Honorable Mention Award**
PDF
37. Azaria A, Kraus S, Goldman CV, Gal Y
Advice Provision for Choice Selection Processes with Ranked Options, AAAI 2014
(also presented in HAIDM workshop in AAMAS 2014)
PDF.
38. Azaria A, Richardson A, Elmalech A, Rosenfeld A
Automated Agents’ Behavior in the Trust-Revenge Game in Comparison to Other
Cultures, AAMAS 2014
PDF.
39. Azaria A, Kraus S and Richardson A
A System for Advice Provision in Multiple Prospect Selection Problems, RecSys 2013
(also appears as an extended abstract in AAAI 2013 and presented in HAIDM workshop
2013)
PDF.
40. Azaria A, Sarne D, Aumann Y
Distributed Matching with Mixed Maximum-Minimum Utilities, IAT 2012
(also presented in AMEC WS in AAMAS 2012)
PDF

2.5 Workshops

41. Li T, Myers B, Azaria A, Labutov I, Rudnicky A, Mitchell T
Designing a Conversational Interface for a Multimodal Smartphone Programming-by-
Demonstration Agent, CHI 2017 workshop on Conversational UX Design
PDF
42. Azaria A, Richardson A, Elmalech A, Rosenfeld A, Kraus S, Sarne D
On Automated Agents Rationality, HAIDM (In AAMAS) 2013
PDF

3 Research Interests and Goals

- Human-agent Interaction
- Instructable Agents
- Modeling and Predicting Human behavior and Decision Making
- Machine Learning, Deep Learning and Reinforcement Learning
- Natural Language Processing

4 Awards, Scholarships and Grants

- Autonomous Vehicle grant by Institute of Transport Innovation of 400K NIS for “A Mobile Laboratory for the Development of Autonomous Capabilities” (Co-PIs: Oren Musicant, Assaf Botzer, Michael Wagner, Shraga Shoval, Zvi Shiller).
- CHI’17 Best Paper Honorable Mention Award
- 2016 GRO Samsung grant of \$100K for “Learning by Instruction Agent (LIA)”.
- **2015 IFAAMAS Victor Lesser Distinguished Dissertation Award**
- CHI’16 LBW Best Paper Honorable Mention Award
- 2015 GRO Samsung grant of \$100K for “Teaching Mobile Devices New Tasks by Instruction” (Co-PI: Tom Mitchell).
- Member of winning team in DARPA SMISC competition, 2015 on bot detection.
- The Presidential Scholarship for Doctoral Studies in Bar-Ilan (2011-2014).
- Technion outstanding excellence scholarship for 2003, and 2002.

5 Scientific Community Participation

- Organizer of NIPS 2018 workshop on ”Learning by Instruction”.
- Senior Program Committee (SPC) member of: AAMAS 2019 (socially interactive agents track).
- Program Committee (PC) member of: AAI 2019, EAAI 2019, AAMAS 2018, AAI 2018, EAAI 2018, AAMAS 2017, CSCW’17 (poster session), AAI 2017, EAAI 2017, HAIDM workshop 2016, ECAI 2016, IJCAI 2016, AAMAS 2016, AAI 2016, EAAI 2016, IJCAI 2015, HAIDM workshop 2015, AAMAS 2015, AAI 2014, AAMAS 2014.
- Review of papers in the following Journals: ACM Computing Surveys Artificial Intelligence (AIJ), Journal of Artificial Intelligence Research (JAIR), Journal of Autonomous Agents and Multiagent Systems (JAAMAS), Knowledge-Based Systems, Artificial Intelligence Review (AIRE), Journal of Intelligent & Robotic Systems (JIRS).