# **CURRICULUM VITA**

## April 5, 2024

**NAME:** Prashant Doshi

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**EDUCATION:**

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| PhD | July, 2005 | University of Illinois, Chicago |
| MS | June, 2001 | Drexel University, Philadelphia, PA |
| BE | May, 1999 | V.J. Technological Institute, University of Mumbai, India |

**PhD THESIS:**

“Optimal Sequential Planning in Partially Observable Multiagent Settings”; advisor, Piotr Gmytrasiewicz, UIC (other committee members: Bing Liu, UIC; Peter Nelson, UIC; Gyorgy Turan, UIC; and Avi Pfeffer, Harvard)

**RESEARCH INTERESTS:**

* Artificial Intelligence: Sequential decision theory, planning for single and multi-agent domains, probabilistic reasoning over time, particle filters
* Game Theory: Games of incomplete information, interactive epistemology
* Robotics: Inverse reinforcement learning and SLAM in multi-robot settings
* Past: Semantic Web: Ontologies, alignment and merging
* Past: Services-oriented Computing: Dynamic Web service composition, adaptation of Web service compositions, trust in compositions

**POSITIONS:**

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| July 2016 – onwards | Professor | University of Georgia |
| January 2015 – Nov 2015 | Visiting Professor | University of Waterloo, Canada |
| August 2010 – July 2016 | Associate Professor with tenure | University of Georgia |
| August 2005 – July 2010 | Assistant Professor | University of Georgia |
| May, 2003 – July 2005 | Research Assistant | University of Illinois, Chicago |
| August 2001 – May 2003 | Teaching Assistant | University of Illinois, Chicago |
| September 1999 – June 2001 | Teaching Assistant | Drexel University |

**HONORS & AWARDS:**

* AAAI Senior Member, 2024
* Best Application Paper Award, International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2021
* On “Cyber Attack Intent Recognition and Active Deception using Factored Interactive POMDPs”.
* Founding Director, Faculty of Robotics at The University of Georgia, 2013-2018.
  + The Faculty of Robotics aims to significantly advance the fundamental science and engineering involved in robotics, facilitate diverse robotic applications with profound societal impact, and enhance the University’s prominence in the discipline of robotics by serving as a singular hub for research in robotics that brings together interested University faculty and students from a variety of disciplines. More details are available at http://robotics.uga.edu
* Creative Research Medal, University of Georgia, 2011
  + Competitively awarded university-wide to 4-5 faculty each year who demonstrate exceptional accomplishments in creativity and research
* UGA Computer Science Department Outstanding Faculty Researcher Award, 2022, 2018, 2014, 2009
* Competitively awarded to one-two faculty of the department each year for outstanding research accomplishments
* Awarded the University of Illinois at Chicago Fellowship for the year 2004-2005
* Best Poster Award at the Summer Students e-Business Research Poster Competition, 2002 at T.J Watson Research Center, IBM”
* On “Parameterized Semantic Matchmaking for Workflow Composition” available as IBM Technical Report, RC23133
* Awarded the Drexel Dean’s Fellowship for the year 1999-2000
* Member of American Association of Artificial Intelligence, Association of Computing Machinery, Upsilon Pi Epsilon and invited membership to Outstanding Student Honor Society

**CONSULTANCY:**

1. Mitsubishi Electric Research Lab, ‘Open Human-Robot Collaborations’, October 1, 2023 – March 31, 2024.
2. NSF and BMBF grant to University of Hamburg, Germany and Scripps College, US, ‘US-German Research Proposal for Collaboration in Computational Neuroscience: Computational Modeling of Cooperative Success using Neural Signals and Networks’, Jan Glascher (PI), Michael Spezio (Co-PI), January 2017 – December 2019.
3. Toyota Research Institute of North America, ‘Decision Making under Uncertainty by Automated Cars for Driving in Congested Traffic’, August 2015 – February 2017.

**GRANTS:**

**External Grants:**

**National Science Foundation**

1. “RI:Medium:Collaborative: Automated Decision Making for Open Multi-Agent Systems”, Prashant Doshi (PI; UGA), LeenKiat Soh (Co-PI; UNL), Adam Eck (Co-PI; Oberlin College), August 1, 2023 – July 31, 2027, $1.18 million (UGA’s portion: $467,141)
2. “STTR Phase I:Integrating Vision-Guided Collaborative Robots for Postharvest Processing of Produce”, Evan Johnston (PI; InversAI, Inc.), Prashant Doshi (Co-PI; UGA), January 2023 – September 2023, $212,153 (UGA’s portion: $77,699).
3. “RI:Small:Collaborative: Scalable Decentralized Planning in Open Multi-Agent Environments”, Adam Eck (PI; Oberlin College), Prashant Doshi (Co-PI; UGA), LeenKiat Soh (Co-PI; UNL), August 1, 2019 – July 31, 2022, $499,900 (UGA’s portion: $145,974).
4. “NRI:FND:Robust Inverse Learning for Human-Robot Collaboration”, Prashant Doshi (PI), Yi Hong (Co-PI), September 2018 – August 2022, $644,182 + $16,000 (REU Supplement).
5. “RI:Small: Tractable Decision-Theoretic Planning Driven by Data”, Prashant Doshi (PI), July 2018 – June 2022, $466,514.
6. “RAPID: Evacuate or Not? Modeling the Decision Making of Individuals in Impending Disaster Areas”, Prashant Doshi (PI), Adam Goodie (Co-PI), October 2017 – September 2019, $107,717.
7. “CNIC:US-Netherlands planning visit for collaboration on intelligent methods under uncertainty for renewable energy driven smart grids”, Prashant Doshi (PI), April 2015 – March 2017, $33,608.
8. “RI:EAGER: Decision-Theoretic and Scalable Algorithms for Computing Finite State Equilibrium”, Prashant Doshi (PI), August 2013 – July 2016, $150,153.
9. “CAREER: Scalable Algorithms for Individual Decision Making in Multiagent Settings”, Prashant Doshi (PI), June 2009 – May 2015, $429,663 + $16,000 (REU Supplement).

**Defense Agencies**

1. Army Research Lab, “Cooperative Multi-Agent Systems”, R. Parasuraman (PI; UGA), Prashant Doshi (Co-PI), September 1, 2023 – August 31, 2026, $1,680,510.
   1. “Reinforcement Learning for Adversarial and Cooperative Multiagent Systems”, Prashant Doshi (Lead; UGA), October 2023 – September 2026, $396,066.
2. Army DEVCOM Data Analysis Center, “Test & Evaluation for Soldier-Machine Decision-Making Systems”, Prashant Doshi (lead PI of UGA effort in the consortium led by Northeastern Univ.), S. Bhandarkar (Co-PI), J. Carmelio (Co-PI), J. Mohammadpour (Co-PI), S. Li (Co-PI), January 2022 – September 30, 2026, $4,427,260.
   1. “Evaluating Machine Compatibility in Human-Robot Interactive Teamwork”, Prashant Doshi (Project lead), Adam Goodie (Co-I), Ramviyas Parasuraman (Co-I), Kenneth Bogert (Co-I), $876,998.
   2. “Assessing Trust between Human and Machine Decision Making Agents”, J. Carmelio (Project lead), Prashant Doshi (Co-I), Neal Outland (Co-I), Aaron Shechter (Co-I), $876,996.
3. Army Research Office (ARO), “A Framework for Asymmetric Information Interactions among (Cyber) Defenders and Attackers”, Prashant Doshi (PI), Kyu Lee (Co-PI), July 2018 – June 2021, $389,902.
4. Office of Naval Research (ONR), “Algorithms and Heuristics for Compressing Mental Model Spaces”, Prashant Doshi (PI), September 2013 – March 2017, $570,327.
5. Army Research Office (ARO), “Strategic State Estimation in Uncertain and Mixed Multiagent Environments”, Prashant Doshi (PI), Adam Goodie (Co-PI), September 2009 – August 2012, $314,472 + $8,316 (URAP Supplement).
6. Air Force Office of Scientific Research (AFOSR), “Individual Decision-Making in Uncertain and Large-Scale Multi-Agent Settings”, Prashant Doshi (PI), Adam Goodie (Co-PI), August 2008 – April 2010, $237,990.

**Industry**

1. Georgia Research Alliance Venture Fund, “InversAI”, Prashant Doshi (PI), Phase II, August 1, 2023 – July 31, 2024, $98,163.
2. Home Depot, “Gift for AI/ML Research Collaboration: Exploring Generative SPNs for Inpainting”, Prashant Doshi (PI), February 2022, $25,000.
3. Georgia Research Alliance, “InversAI”, Prashant Doshi (PI), Phase 1, March 1, 2020 – March 31, 2022, $49,969.
4. Metonymize Labs, Inc. “Survey SPN (SurveySapien):Metonymized Platform for Next Generation Surveys using SPNs”, Prashant Doshi (PI), September 1, 2018 – August 31, 2019, $70,731.
5. Toyota, Inc. ‘Multi-Task Inverse Reinforcement Learning of Driver Models for Automated Cars’, Prashant Doshi (PI), July 2016 – June 2017, $76,025.
6. Toyota, Inc. 00016-5630, “Collaborative Research on Inverse Reinforcement Learning of Multi-Agent Models for Automated Cars”, Prashant Doshi (PI), August 2015 – May 2016, $111,891.
7. Microsoft Research, “Semantic Reconciliation with Disparate Sensor Meta-Data for Automatic Publication”, Prashant Doshi (PI), SensorMap RFP, May 2007 – April 2008, $53,864.

**National Institutes for Health**

1. NHLBI, “Semantics and Services Enabled Problem Solving Environments for Trypanosoma Cruzi”, Amit Sheth (PI), Rick Tarleton (Co-PI), Prashant Doshi (Co-PI), Mark Musen (Co-PI), Natalya Noy (Sr. Res. Sc.), April 2008 – March 2012. $1,515,656 (UGA’s portion $569,000).

**Internal Grants:**

1. Presidential Interdisciplinary Project Seed Grant, “Developing Applied Institutional Ethics for the Age of AI: Interdisciplinary Approaches”, Youjin Kong (PI, Philosophy), Christian Turner (Co-PI, Law), Prashant Doshi (Co-PI), Lefteris Anastasopoulos (Co-PI, Public Administration & Policy), Ari Schlesinger (Co-PI, CS), Akshat Lakhiwal (Co-PI, MIS), January 1, 2024 – June 30, 2025, $149,975.
2. Institute for Integrative Precision Agriculture Seed Grant, “PRECISIONDETECT (PD): AI-Enhanced Hyperspectral Imaging for Early Chicken Egg Fertility Detection”, Christopher Kucha (PI, Food Science), Prashant Doshi (Co-PI), Guoming Li (Co-PI, Poultry Science), December 10, 2023 – June 30, 2024, $37,940.
3. Learning Technology Grant, “From Toys to Robots for Active Learning in Robotics and AI Education”, Ramviyas Parasuraman (PI), Prashant Doshi (Co-PI), July 1, 2019 – June 30, 2020, $24,893.
4. OVPR Grants-on-the-Edge, “NSF proposal: Improving strategic reasoning about competitor intent”, Adam Goodie (PI, Psychology), Prashant Doshi (Computer Science), Kyle Johnsen (Engineering), July 2015 – June 2016, $8,000
5. Interdisciplinary Project Development Grant, “RoboSTEM: OERs to help Elementary School Teachers teach STEM subjects through Robotics and Design-based Learning”, ChanMin Kim (Education), Prashant Doshi (Computer Science), and Roger Hill (Education), May 2014 – April 2015, $45,912.
6. Learning Technology Grant, “RoboTube: Robotics Technology for Students in Teacher Education Courses”, ChanMin Kim (Education), Chi Thai (Engineering) and Prashant Doshi (Computer Science), $25,000
7. UGARF & Various Units, Seed funding for The Faculty of Robotics at UGA, Prashant Doshi (Director), 2013, $44,050
8. Provost 2013 Travel Grant, Conference Travel to Irvine, CA, September 2013, $2,100
9. Provost 2012 Summer Research Grant, “SLAM-MPR: Localization and Mapping in Environments involving Multiple Physical Robots”, July 2011, $5,000
10. “Individual Decision-Making in Large-Scale and Multi-Agent Settings”, UGARF Faculty Research Grant, $4,900, January 2, 2007 – December 31, 2007.
11. “Autonomous Web Processes: Theory and Applications”, UGARF Faculty Research Grant, $8,000, January 1, 2006 – December 31, 2006.

AI Institutes, “Theme 4:ADMIT:Advance Justifiable Decision Making for Multi-Agent Interactions”, Prashant Doshi (PI; UGA), ChanMin Kim (Co-PI; Penn State), Michael Spezio (Co-PI; Scripps College), Bikramjit Banerjee (Co-PI; USM), Leen-Kiat Soh (Co-PI; UNL), and 17 other investigators, $19,547,619, *pending*.

**PROFESSIONAL ACTIVITIES:**

Editorial Board Member

* Journal of Autonomous Agents and Multi-Agent Systems, 2020-present.
* Journal of Artificial Intelligence Research (JAIR), 2009-2012, 2012-2015.

Organization Committee Member

* Workshop on Multiagent Sequential Decision Making under Uncertainty, AAMAS Conference, 2023
* Autonomous Agents and Multi-Agent Systems Conference (AAMAS), Exhibitions Chair, 2017
* Workshop on Interactions with Mixed Agent Types, IJCAI, 2016.
* Workshop on Multiagent Sequential Decision Making in Uncertain Domains, AAMAS, 2009, 2010, 2011, 2012, 2013, 2014, 2015.
* Tutorial on Type-Based Methods for Interaction in Multiagent Systems, AAAI, 2016.
* Tutorial on Decision-Making in Extended Multiagent Interactions, AAMAS, May, 2008, 2009, 2010, 2011, 2012, 2013, 2014.
* Workshop on Web Service Composition and Adaptation IEEE ICWS/SCC, July, 2008, 2009.
* Workshop on AI-Driven Technologies for Services-Oriented Computing, AAAI, 2006.
* Special session on the Semantic Web: Theory and Applications, IEEE GrC, 2006.

Panelist

* “How can MSDM research improve ChatGPT type agents”, May 30, 2023, MSDM Workshop, AAMAS 2023
* “Panel on Precision Agriculture Innovation, Trends, and Use Cases”, December 10, 2020, TAG presents Georgia's Farms: Connectivity, Technology Trends, and Use Cases
* “Coffee with the Pros: Industry Funding”, UGA OVPR Panel, September 2, 2016.
* Experts panel in Workshop on Multiagent Interaction without Prior Coordination, AAAI, 2014.
* NSF CISE/IIS Review Panel Member, 2009, 2011, 2013, 2015, 2016, 2017, 2019, 2020, 2021, 2024.
* Army Basic Research Review – Life Sciences: Psychology, Cognitive Science and Biological Sciences Panel, 2010.
* Panel on Browsing the Physical World in Real Time, Microsoft Research Faculty Summit, 2008.
* Panel on SensorNet 2.0, Microsoft Research Faculty Summit, 2007.
* Experts Panel in Workshop on Modeling other Agents from Observations, AAMAS, 2004.

Program Committee Member

* International Conference on AI (ICAI), Area Chair, 2024
* Autonomous Agents and Multi-agent Systems Conference (AAMAS), Area Chair, 2018, 2019, 2023
* Autonomous Agents and Multi-agent Systems Conference (AAMAS), Senior PC, 2017, 2020, 2022
* AAAI Conference on AI, Senior PC, 2023
* International Joint Conference on Artificial Intelligence (IJCAI), Senior PC, 2013, 2015, 2018, 2020
* Autonomous Agents and Multi-agent Systems Conference (AAMAS), PC, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015.
* International Joint Conference on Artificial Intelligence (IJCAI), 2007, 2009.
* National Conference on Artificial Intelligence (AAAI), 2008, 2012, 2013, 2015.
* IEEE Conference on Services-Centered Conferences (SCC), 2006, 2007, 2008.
* Artificial Intelligence and Pattern Recognition Conference (AIPR), 2007.
* Workshop on Sequential Decision Making in Uncertain Multiagent Environments (MSDM), AAMAS, 2006, 2007, 2008, 2009.
* AAAI Spring Symposium/Workshop on Game Theory and Decision Theory (GTDT), 2005, 2006, 2007.
* The International Workshop on Context enabled Source and Service Selection, Integration and Adaptation (CSSSIA), in conjunction with WWW, 2008.
* First International Workshop on Web Services Composition and Adaptation, 2007.
* Workshop on Agent Technologies for Web 2.0, IJCAI, 2007.
* International Conference on Self-Organization and Autonomic Systems (SOAS), 2006.
* IEEE Conference on Granular Computing, 2006.
* Workshop on Modeling other Agents from Observations, AAMAS 2004.
* Seventeenth International FLAIRS Conference, 2004.

Reviewer

* Annals of Operations Research
* Artificial Intelligence Journal (AIJ)
* Journal of Autonomous Agents and Multiagent Systems (JAAMAS).
* International Journal of Semantic Web and Information Systems (IJSWIS).
* IEEE Distributed Systems Online, 2006.
* Sixth International Workshop on Game Theory and Decision Theory, 2004.

**BOOK CHAPTERS** (Totalcount 4)

1. Fadel Adoe, Yingke Chen and Prashant Doshi, “Speeding Up Planning in Multiagent Settings Using CPU-GPU Architectures. In *Agents and Artificial Intelligence, 7th International Conference, ICAART 2015, Revised Selected Papers,* Springer LNCS*,* pages 262-283, 2015.
2. Prashant Doshi, Xia Qu and Adam Goodie, “Decision-Theoretic Planning in Multiagent Settings with Application to Behavioral Modeling”, in G. Sukthankar, C. Geib, R. P. Goldman, H. Bui, and D. V. Pynadath (Eds.), *Plan, Activity, and Intent Recognition,* 1st Edition*,* Elsevier, ISBN 978-0-12-398532-3, pages 205-222, 2014.
3. Prashant Doshi and Nithya Vembu, “Mediating Message Heterogeneity in Service Compositions: A Design Model”, in R. Ramanathan and K. Raja (Eds.), *Service-driven Approaches to Architecture and Enterprise Integration*, IGI Global Publishing, pages 85-103, 2013.
4. John Harney and Prashant Doshi, “Selective Querying for Adapting Hierarchical Web Service Compositions”, book chapter, in N. Mila*novic (Ed.), Service Composition, Business Process Engineering and Domain-Specific Challenges in Service Oriented Architecture: Engineering Non-Functional Requirements*, IGI Global Publishing, ISBN 9781609604936, pages 125-144, 2011.

**REFEREED JOURNAL PUBLICATIONS:** (Total count 34; Total citation count for all publications per Google Scholar: 5,500+; h-index: 33)**:**

1. Keyang He, Prashant Doshi, and Bikramjit Banerjee, “Modeling and Reinforcement Learning in Partially-Observable Many-Agent Systems”, in *Journal of Autonomous Agents and Multiagent Systems (JAAMAS)*, Vol. 24:e12, 2024.
2. Adam Eck, Leen-Kiat Soh, and Prashant Doshi, “Decision Making in Open Agent Systems”, AI Magazine (Winter 2023), Vol. 44:508-523, 2023.
3. Saurabh Steixner‑Kumar, Tessa Rusch, Prashant Doshi, Michael Spezio, and Jan Gläscher, “Humans depart from optimal computational models of interactive decision‑making during competition under partial information”, in Scientific Reports, Springer, Vol. 12:289, 19 pages, 2022.
4. Omid Setayeshfar, Christian Adkins, Matthew Jones, Kyu Hyung Lee, Prashant Doshi, “GrAALF: Supporting Graphical Analysis of Audit Logs for Forensics”, in *Software Impacts*, Vol. 8: e100068, 2021.
5. Saurabh Arora, Prashant Doshi, and Bikramjit Banerjee, “I2RL: Online Inverse Reinforcement Learning under Occlusion”, in *Journal of Autonomous Agents and Multiagent Systems (JAAMAS)*, Vol. 35(1):e4, 2021.
6. Roi Ceren, Keyang He, Bikramjit Banerjee, and Prashant Doshi, “PALO Bounds for Reinforcement Learning in Partially Observable Stochastic Games”, in Journal of Neurocomputing, Vol. 420:36-56, 2021.
7. Saurabh Arora and Prashant Doshi, “A Survey of Inverse Reinforcement Learning: Challenges, Methods, and Progress”, in *Artificial Intelligence Journal (AIJ)*, Volume 297, e103500, 2021.
8. Tessa Rusch, Saurabh Steixner-Kumar, Prashant Doshi, Michael Spezio, and Jan Glascher, "Theory of Mind and Decision Science: Towards a Typology of Tasks and Computational Models", in Neuropsychologia, Elsevier, Vol. 146:107488, 2020.
9. Prashant Doshi, Piotr Gmytrasiewicz, and Edmund Durfee, “Recursively Modeling Other Agents for Decision Making: A Research Perspective”, *Artificial Intelligence Journal (AIJ)*, Elsevier, Vol. 279, 2020.
10. Adam Goodie, Adithya Raam Sankar, and Prashant Doshi, “Experience, Risk, Warnings, and Demographics: Predictors of Evacuation Decisions in Hurricanes Harvey and Irma”, *Journal of Disaster Risk Reduction,* Elsevier, Vol. 41, 2019.
11. Tomoki Nishi, Prashant Doshi, and Danil Prokhorov, “Merging in Congested Freeway Traffic using Multipolicy Decision Making and Passive Actor-Critic Learning”, *IEEE Transactions on Intelligent Vehicles,* Vol. 4(2):287-297, 2019.
12. ChanMin Kim, Mei Yuan, Dongho Kim, Prashant Doshi, Roger Hill and Ernst Melias, “Studying the Usability of an Intervention to Promote Teachers' Use of Robotics in STEM Education”, *Journal of Educational Computing Research,* Vol. 56(8): 1179-1212, 2019.
13. Kenneth Bogert and Prashant Doshi, “Multi-Robot Inverse Reinforcement Learning under Occlusion with Estimation of State Transitions”, *Artificial Intelligence Journal (AIJ),* Elsevier,Vol. 263: 46-73,2018.
14. Ekhlas Sonu, Yingke Chen, and Prashant Doshi, "Decision-Theoretic Planning under Anonymity in Agent Populations", *Journal of Artificial Intelligence Research (JAIR)*, Vol. 59: 725-770, 2017.
15. Muthukumaran Chandrasekaran, Prashant Doshi, Yifeng Zeng and Yingke Chen, “Can Bounded and Self-Interested Agents be Teammates? Application to Planning in Ad Hoc Teams", *Journal of Autonomous Agents and Multi-Agent Systems*, Vol. 31(4):821-860, 2017.
16. Xia Qu and Prashant Doshi, “On the Role of Fairness and Limited Backward Induction in Sequential Bargaining Games: New Behavioral Models and Analyses”, *Annals of AI and Mathematics*, Springer, Vol. 79(1):205-227, 2016.
17. Adam S. Goodie, Mathew K. Meisel, Roi Ceren, Dan B. Hall and Prashant Doshi, “Evaluating and Improving Probability Assessment in an Ambiguous, Sequential Environment”, *Current Psychology,* Springer, Vol. 35*,* 667-673, 2016.
18. Yifeng Zeng, Prashant Doshi, Yingke Chen, Yinhui Pan, Hua Mao and Muthukumaran Chandrasekaran, “Approximating Behavioral Equivalence for Scaling Solutions of Interactive Dynamic Influence Diagrams”, *Knowledge and Information Systems (KAIS)*, Springer, Vol. 49(2): 511-552, 2016.
19. Amir H. Asiaee, Todd Minning, Prashant Doshi and Rick L. Tarleton, “A Framework for Ontology-Based Question Answering with Application to Parasite Immunology”, *Journal of Biomedical Semantics,* Vol. 6:31, BMC, 2015.
20. ChanMin Kim, Dongho Kim, Jianmei Yuan, Roger B. Hill, Prashant Doshi and Chi N. Thai, Robotics to Promote Elementary Education Pre-Service Teachers' STEM Engagement, Learning, and Teaching”, *Computers & Education,* Vol. 91, 14-31, 2015.
21. Ekhlas Sonu and Prashant Doshi, “Scalable Solutions of Interactive POMDPs using Generalized and Bounded Policy Iteration”, *Journal of Autonomous Agents and Multiagent Systems (JAAMAS)*, Vol. 29(3):455-494, Springer, 2015.
22. Uthayasanker Thayasivam and Prashant Doshi, “Speeding Up Iterative Ontology Alignment using Block-Coordinate Descent”, *Journal of Artificial Intelligence Research (JAIR)*, Vol. 50:805-845, 2014.
23. Prashant Doshi, “Decision Making in Complex Multiagent Contexts: A Tale of Two Frameworks”, *AI Magazine*, Vol. 33(4):82-95, 2012.
24. Prashant Doshi, Xia Qu, Adam Goodie and Diana Young, “Modeling Human Recursive Reasoning using Empirically-Informed Interactive POMDPs”, *IEEE Transactions on Systems, Man and Cybernetics (SMC), Part A,* 42(6):1529-1542, 2012.
25. Priti Parikh, Todd Minning, Vinh Nguyen, Sarasi Lalithsena, Amir Asiaee, Satya Sahoo, Prashant Doshi, Amit Sheth and Rick Tarleton, “A Semantic Problem Solving Environment for Integrative Parasite Research: Identification of Intervention Targets for Trypanosoma cruzi”*, PLoS Neglected Tropical Diseases (PLoS NTDs),* Vol. 6(1):e1458, 2012.
26. Yifeng Zeng and Prashant Doshi, “Exploiting Model Equivalences for Solving Interactive dynamic Influence Diagrams”, *Journal of Artificial Intelligence Research (JAIR)*, 43:211-255, 2012.
27. Adam Goodie, Prashant Doshi and Diana Young, “Levels of Theory-of-Mind Reasoning in Competitive Games”, *Journal of Behavioral Decision Making (JBDM)*, Wiley, vol. 25: 95-108, 2012.
28. Yifeng Zeng and Prashant Doshi, “Model Identification in Interactive Influence Diagrams Using Mutual Information”, *Journal of Web Intelligence and Agent Systems (JWIAS), IOS Press*, Vol. 8(3):313-327, 2010.
29. Haibo Zhao and Prashant Doshi, “A Hierarchical Framework for Logical Composition of Web Services”, *Journal of Services-Oriented Computing and applications (SOCA), Springer Publishing*, Vol. 3(4):285-306, 2009.
30. Prashant Doshi and Piotr Gmytrasiewicz, “Monte Carlo Sampling Methods for Approximating Interactive POMDPs”, *Journal of Artificial Intelligence Research (JAIR)*, Vol. 34: 297-337, 2009.
31. Prashant Doshi, Christopher Thomas and Ravikanth Kolli, “Inexact Matching of Ontology Graphs Using Expectation-Maximization”, *Journal of Web Semantics (JWS), Elsevier Publishing*, Vol. 7(2):90-106, 2009.
32. Prashant Doshi, Yifeng Zeng and Qiongyu Chen, “Graphical Models for Interactive POMDPs: Representations and Solutions”, *Journal of Autonomous Agents and Multiagent Systems (JAAMAS), Springer Publishing*, Vol. 18(3):376-416, 2009.
33. John Harney and Prashant Doshi, “Selective Querying For Adapting Web Service Compositions Using the Value of Changed Information”, *IEEE Transactions on Services Computing (TSC)*, Vol. 1(3):169-185, 2008.
34. Piotr Gmytrasiewicz and Prashant Doshi, “A Framework for Sequential Planning in Multiagent Settings”, *Journal of Artificial Intelligence Research (JAIR)*. Vol. 24:49-79, 2005.
35. Prashant Doshi, Richard Goodwin, Rama Akkiraju and Kunal Verma, “Dynamic Workflow Composition Using Markov Decision Processes”, *International Journal of Web Services Research (JWSR)*, IGI Global Publishing, Vol. 2(1): 1-17, 2005.
36. John Clarke, Stanley Trooskin, Prashant Doshi, Lloyd Greenwald and Charles Mode, “Time to Laparatomy for Intra-Abdominal Bleeding from Trauma does affect Survival for Delays up to 90 minutes ”, *The Journal of Trauma: Injury, Infection, and Critical Care*, Vol. 52(3): 420-425, 2002.

**REFEREED ARCHIVAL CONFERENCE PUBLICATIONS** (Total count 98)**:**

1. Aditya Shinde and Prashant Doshi, “Modeling Cognitive Biases in Decision-Theoretic Planning for Active Cyber Deception”, *Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, 2024, in press.
2. Prasanth Sengadu Suresh, Yikang Gui, Prashant Doshi, “Dec-AIRL: Decentralized Adversarial IRL for Human-Robot Teaming”, *Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, pp. 1116-1124, 2023.
3. Saurabh Arora, Bikramjit Banerjee, and Prashant Doshi, “Online Inverse Reinforcement Learning with Learned Observation Model”, *Conference on Robot Learning (CoRL)*, pp.1468-1477, 2022.
4. Swaraj Pawar and Prashant Doshi, “Anytime Learning of Sum-Product and Sum-Product-Max Networks”, *International Conference on Probabilistic Graphical Models (PGM)*, pp. 49-60, 2022.
5. Anirudh Kakarlapudi, Gayathri Anil, Adam Eck, Prashant Doshi, and Leen-Kiat Soh, “Decision-Theoretic Planning with Communication in Open Multiagent Systems”, *Conference on Uncertainty in AI (UAI)*, pp. 938-948, 2022.
6. Keyang He, Prashant Doshi, and Bikramjit Banerjee, “Reinforcement Learning in Many-Agent Settings under Partial Observability”, *Conference on Uncertainty in AI (UAI)*, pp. 780-789, 2022.
7. Prasanth Suresh and Prashant Doshi, “Marginal MAP Estimation for Inverse RL under Occlusion with Observer Noise”, *Conference on Uncertainty in AI (UAI)*, pp. 1907-1916, 2022.
8. Kenneth Bogert and Prashant Doshi, “A Hierarchical Bayesian Process for Inverse RL in Partially-Controlled Environments”, *Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, pp. 145-153, 2022.
9. Layton Hayes, Swaraj Pawar, Prashant Doshi, and Hari Teja Tatavarti, “State-based Recurrent SPMNs for Decision-Theoretic Planning Under Partial Observability”, *Thirtieth International Joint Conference on AI (IJCAI)*, pp. 2526-2533, 2021.
10. Saurabh Arora, Prashant Doshi, and Bikramjit Banerjee, “Min-Max Entropy Inverse RL of Multiple Tasks”, *IEEE/RSJ International Conference on Robotics and Automation (ICRA),* pp. 12639-12645, 2021.
11. Hari Tatavarti, Prashant Doshi, and Layton Hayes, “Data-Driven Decision-Theoretic Planning using Recurrent Sum-Product-Max Networks” *International Conference on Automated Planning and Scheduling (ICAPS),* pp. 606-614, 2021.
12. Aditya Shinde, Omid Setayeshfar, and Prashant Doshi, "Cyber Attack Intent Recognition and Active Deception using Factored Interactive POMDPs", *Twentieth* *Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS),* pp. 1200-1208, 2021, **Best Application Paper Award**.
13. Keyang He, Bikramjit Banerjee, and Prashant Doshi, "Cooperative-Competitive Reinforcement Learning with History-Dependent Rewards", *Twentieth* *Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, pp. 602-610, 2021.
14. Muhammed AbuOdeh, Christian Adkins, Omid Setayeshfar, Prashant Doshi, and Kyu Hyung Lee, "A Novel AI-based Methodology for Identifying Cyber Attacks in Honey Pots", *Innovative Applications of AI (IAAI),* Emerging Applications, pp. 15224-15231, 2021.
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26. Marius Silaghi, Prashant Doshi, Toshihiro Matsui and Makoto Yokoo, “Distributed Private Constraint Optimization Problem: Cost of Privacy Loss”, *Tenth International Workshop on Distributed Constraint Reasoning (DCR)*, AAMAS, Estoril, May 12, 2008, pp. 115-126.
27. Marius Silaghi, Prashant Doshi, Toshihiro Matsui, Makoto Yokoo and Frank Zanker, “Optimization in Private Stable Matching with Cost of Privacy Loss”, *Workshop on Optimization in Multiagent Systems (OptMas)*, AAMAS, Estoril, May 12, 2008, pp. 20-27.
28. Yifeng Zeng and Prashant Doshi, “Towards Robust Model Identification in Interactive Influence Diagrams Using Mutual Information”, *Workshop on Multiagent Sequential Decision-Making in Uncertain Domains (MSDM)*, AAMAS, Estoril, May 12, 2008, pp. 153-167.
29. John Harney and Prashant Doshi, “Speeding Up Web Service Composition with Volatile External Information”, *International Workshop on Context enabled Source and Service Selection, Integration and Adaptation (CSSSIA)*, WWW, Beijing, China, April 22, 2008, ACM Conference Proceedings, Vol 292 (4).
30. Dennis D. Perez and Prashant Doshi, “Approximate Solutions to Interactive POMDPs Using Point Based Value Iteration, *Tenth International Symposium on Artificial Intelligence and Mathematics (AMAI)*, Ft. Lauderdale, FL, January 2-4, 2008.
31. Prashant Doshi, “Approximate State Estimation for Multiagent Settings with Continuous or Large Discrete State Spaces”, *Workshop on Multiagent Sequential Decision-Making in Uncertain Domains (MSDM)*, AAMAS, Honolulu, May 15, 2007, pp. 4-11.
32. Prashant Doshi, Yifeng Zeng and Qiongyu Chen, “Graphical Models for Online Decision-Making in Interactive POMDPs”, *AAAI Spring Symposium on Game Theoretic and Decision Theoretic Agents (GTDT)*, Stanford, CA, March 26-28, 2007, pp. 8-16.
33. John Harney and Prashant Doshi, “Adaptive Web Processes Using Value of Change Computations”, Workshop on *AI-Driven Technologies for Services-Oriented Computing (AI\_SOC)*, AAAI, Boston, July 16, 2006, pp. 19-25.
34. Haibo Zhao and Prashant Doshi, “Composing Nested Web Processes Using Hierarchical Semi-Markov Decision Processes”, Workshop on *AI-Driven Technologies for Services-Oriented Computing (AI-SOC)*, AAAI, Boston, July 16, 2006, pp. 75-83.
35. Prashant Doshi and Piotr Gmytrasiewicz, “On the Difficulty of Achieving Equilibrium in Interactive POMDPs”, *Ninth International Symposium on Artificial Intelligence and Mathematics (AMAI)*, Ft. Lauderdale, FL, January 4-6, 2006, http://anytime.cs.umass.edu/aimath06.
36. Prashant Doshi and Piotr Gmytrasiewicz, “Subjective Equilibrium in Interactive POMDPs: Theory and Computational Limitations”, *Seventh International Workshop on Game Theory and Decision Theory (GTDT)*, IJCAI, Edinburgh, Scotland, July, 2005.
37. Prashant Doshi and Piotr Gmytrasiewicz, “A Framework for Optimal Sequential Planning in Multiagent Settings”, *Ninth AAAI/SIGART Doctoral Consortium*, AAAI, San Jose, CA, July 2004, pp. 985-986.
38. Kunal Verma, Rama Akkiraju, Richard Goodwin, Prashant Doshi and Juhnyoung Lee, “On Accommodating Inter-Service Dependencies in Web Process Flow Composition”, *AAAI Spring Symposium on Semantic Web Services*, Stanford, CA, March 22-24, 2004, pp. 37-43.
39. Piotr Gmytrasiewicz and Prashant Doshi, “A Framework for Sequential Planning in Multiagent Settings”, *Sixth International Workshop on Game Theory and Decision Theory (GTDT)*, New York, NY, July 20, 2004, pp. 39-47.
40. Prashant Doshi and Piotr Gmytrasiewicz, “A Particle Filtering Algorithm for Interactive POMDPs”, *Workshop on Modeling Other Agents from Observations (MOO)*, AAMAS, New York, NY, July 19, 2004, pp. 87-94.
41. Rama Akkiraju, Kunal Verma, Richard Goodwin, Prashant Doshi and Juhnyoung Lee, “Executing Abstract Web Process Flows”, *Workshop on Planning and Scheduling for Web and Grid Services*, ICAPS, Whistler, Canada, June 3-7, 2004, pp. 9-15.
42. Piotr Gmytrasiewicz and Prashant Doshi, “A Framework for Sequential Planning in Multiagent Settings”, AI&M 9-2004, *Eighth International Symposium on Artificial Intelligence and Mathematics (AMAI)*, Ft. Lauderdale, FL, January 4-6, 2004, http://rutcon.rutgers.edu/~amai/aimath04.
43. Rama Akkiraju, Richard Goodwin, Prashant Doshi and Sascha Roeder, “A Method For Semantically Enhancing the Service Discovery Capabilities of UDDI”, *Workshop on Information Integration on the Web*, IJCAI, Acapulco, Mexico, August 9-10, 2003, pp. 87-92.
44. Prashant Doshi, Lloyd Greenwald and John Clarke, “Towards Effective Structure Learning for Large Bayesian Networks”, *Workshop on Probabilistic Approaches in Search*, *AAAI* Edmonton, Canada, July 28-30, 2002, pp. 16-22.
45. Prashant Doshi, Lloyd Greenwald and John Clarke, “On Retaining Intermediate Probabilistic Models When Building Bayesian Networks”, *AAAI Fall Symposium on Using Uncertainty Within Programming*, North Falmouth, MA, November 2-4, 2001, pp. 47-48.

**RESEARCH PAPER PREPRINTS**

1. Keyang He, Prashant Doshi, and Bikramjit Banerjee, "Latent Interactive A2C for Improved RL in Open Many-Agent Systems", in arXiv:2305.05159, 2023.
2. Yikang Gui and Prashant Doshi, “A Novel Variational Lower Bound for Inverse Reinforcement Learning”, in arXiv: 2311.03698, 2023.
3. Gengyu Zhang and Prashant Doshi, “SIPOMDPLite-Net: Lightweight, Self-Interested Learning and Planning in POSGs with Sparse Interactions”, in arXiv:2202.11188, 2022.

**SUBMITTED CONFERENCE PUBLICATONS**:

5 conference papers under review and revision

**EDITED PROCEEDINGS** (Total count 11)**:**

1. Yifeng Zeng, Yuchen Xiao, Yinghui Pan, and Prashant Doshi, “Multi-agent Sequential Decision Making under Uncertainty: Papers from AAMAS ’23 Workshop”, Technical Report, 2023.
2. Enrique Munoz de Cote, Long Tran-Thanh, Christopher Amato and Prashant Doshi, “Interactions with Mixed Agent Types (AgentMix): Papers from IJCAI 2016 workshop”, Technical Report, 2016.
3. Prashant Doshi, Aurelie Beynier, Brenda Ng, and Jason Sleight, “Multi-agent Sequential Decision Making under Uncertainty: Papers from AAMAS ’15 Workshop”, Technical Report, 2015.
4. Prashant Doshi, Stefan Witwicki, Jilles Dibangoye, Eric Shieh and Joao Messias, “Multi-agent Sequential Decision Making under Uncertainty: Papers from AAMAS ’14 Workshop”, Technical Report, 2014.
5. Prashant Doshi, Junyoung Kwak, Frans Oliehoek and Stefan Witwicki, “Multi-agent Sequential Decision Making under Uncertainty: Papers from AAMAS ’13 Workshop”, Technical Report, 2013.
6. Prashant Doshi, Junyoung Kwak, Frans Oliehoek and Stefan Witwicki, “Multi-agent Sequential Decision Making under Uncertainty: Papers from AAMAS ’12 Workshop”, Technical Report, 2012.
7. Piotr Gmytrasiewicz, Prashant Doshi, Simon Parsons and Karl Tuyls, “Interactive Decision Theory and Game Theory: Papers from the 2011 AAAI Workshop”, AAAI Press, Technical Report WS-11-13, 76 pp., ISBN 978-1-57735-529-8, 2011.
8. Prashant Doshi, Junyoung Kwak, Frans Oliehoek and Stefan Witwicki, “Multi-agent Sequential Decision Making in Uncertain Domains: Papers from AAMAS ’11 Workshop”, Technical Report, 2011.
9. Piotr Gmytrasiewicz, Prashant Doshi and Karl Tuyls, “Interactive Decision Theory and Game Theory: Papers from the 2010 AAAI Workshop”, AAAI Press, Technical Report WS-10-03, 88 pp., ISBN 978-1-57735-469-7, 2010.
10. Matthijs Spaan, Christopher Amato, Georgios Chalkiadakis, Prashant Doshi and Abdel-Illah Mouadib, “Multi-agent Sequential Decision Making in Uncertain Domains: Papers from AAMAS’10 Workshop”, Technical Report, 2010.
11. J. Pathak, S. Basu and P. Doshi (Eds.), “Third International Workshop on Web Services Composition and Adaptation (WSCA)”, SERVICES 2009, IEEE CS Press, ISBN 978-0-7695-3708-5, July 7, 2009.
12. J. Pathak, S. Basu, M. Pistore, P. Doshi and R. Akkiraju, “Second International Workshop on Web Services Composition and Adaptation (WSCA)”, SERVICES 2008, IEEE Computer Society Press, ISBN 978-0-7695-3286-8, July 8, 2008.
13. P. Doshi, R. Goodwin and A. Sheth, “AI-Driven Technologies for Services-Oriented Computing: Papers from the 2006 AAAI Workshop”, AAAI Press, ISBN 978-1-57735-283-9, July 16, 2006, 92 pp.

**OTHER PUBLICATIONS:**

1. D. Aha, M. Boddy, V. Bulitko, A. Garcez, P. Doshi, S. Edelkamp, C. Geib, P. Gmytrasiewicz, R. Goldman, A. Halevy, P. Hitzler, C. Isbell, D. Joysula, L. Kaelbling, K. Kersting, M. Kunda, L. Lamb, B. Marthi, K. McGreggor, L. Mihalkova, V. Nastase, S. Natarajan, G. Provan, A. Raja, A. Ram, M. Riedl, S. Russell, A. Sabharwal, J. Smaus, G. Sukthankar, K. Tuyls and R. Meyden, “Reports of the AAAI 2010 Conference Workshops”, AI Magazine, Vol. 31(4):95 – 104, 2010.
2. W. Achtner, E. Aimeur, S. Anand, D. Apelt, N. Ashish, T. Barnes, J. Beck, M. Dias, P. Doshi, C. Drummond, W. Elazmeh, A. Felner, D. Freitag, H. Geffner, C. Geib, R. Goodwin, R. Holte, F. Hutter, F. Isaac, N. Japkowicz, G. Kaminka, S. Koenig, M. Lagoudakis, D. Leake, L. Lewis, H. Liu, T. Metzler, R. Mihalcea, R. Mobasher, P. Poupart, D. Pynadath, T. Roth-Berghofer, W. Ruml, S. Schulz, S. Schwarz, S. Seneff, A. Sheth, R. Sun, M. Thielscher, A. Upal, J. Williams, S. Young, D. Zelenko, “Reports on the Twenty-first National Conference on AI (AAAI-06) Workshop Program”, *AI Magazine*, Vol. 27(4), pp. 92 – 102, Winter 2006.

**TECHNICAL REPORTS:**

* Xia Qu and Prashant Doshi, “Behavioral Modeling of Sequential Bargaining Games: Fairness and Limited Backward Induction”, Available at SSRN: http://ssrn.com/abstract=2305640 or <http://dx.doi.org/10.2139/ssrn.2305640>, August 2013.
* Rama Akkiraju, John Colgrave, Kunal Verma, Richard Goodwin, Prashant Doshi and Juhnyoung Lee, “Dynamic Discovery and Binding of Web Services to Abstract Web Process Flows”, Technical report RC23808, T.J. Watson Research Center, IBM, New York, November 2005.
* Prashant Doshi, Richard Goodwin and Rama Akkiraju, “Parameterized Semantic Matchmaking for Workflow Composition”, Technical Report RC23133, T. J. Watson Research Center, IBM, NY, March, 2004

**INVITED PRESENTATIONS** (Total count 46)**:**

1. “Decision Making in Open Agent Systems”, Invited talk at the Institute for Big Data Science & Technology, Shenzhen University, China, December 21, 2023.
2. “How can MSDM Research Help ChatGPT-Type Agents”, Panelist, AAMAS Workshop on Multiagent Sequential Decision Making (MSDM), May 30, 2023.
3. “Fully Decentralized RL in Complex Multi-Agent Settings”, Invited talk at Institute for Perception, Action, & Behavior Seminar, University of Edinburgh, UK, May 26, 2023.
4. “Fully Decentralized RL in Complex Multi-Agent Settings”, Invited talk at Computer & Information Sciences Seminar, Northumbria University, UK, May 24, 2023.
5. “Fully Decentralized RL in Complex Multi-Agent Settings”, Invited talk in AI Seminar Series, University of Waterloo AI Institute, Canada, May 10, 2023.
6. “Recursively Modeling Other Agents for Decision Making: A Research Perspective”, Invited talk at Raytheon Technologies Research Center, July 6, 2022.
7. “Interactive Actor-Critic for RL in Cooperative-Competitive Environments”, Invited talk at Dr. B. C. Roy Engineering College, Durgapur, India, March 11, 2022.
8. “Interactive Actor-Critic for RL in Cooperative-Competitive Environments”, Invited talk at Jeff Rosenchein’s Critical MAS Seminar, Hebrew University of Jerusalem, February 17, 2022.
9. “Precision Agriculture Innovation, Trends and Use Cases”, Panelist, Technology Association of Georgia, December 10, 2020.
10. “Active Cyber Deception using Factored Interactive POMDPs”, Invited talk at Cyberdeception Research Lab, University of New South Wales, Australia, August 10, 2020.
11. “Intelligent Systems and Robotics”, Invited talk at Institute for Human-Machine Cognition & Univ. of West Florida, April 30, 2019.
12. “A Computational Framework for Interactive Decision Making with Applications in Strategic Tasks”, Invited talk at Cross-Modal Learning Center, University of Hamburg, June 6, 2018.
13. “Robots, Reinforcement Learning and Data Mining”, Invited talk at National University of Singapore, June 2, 2017.
14. “Robots, Reinforcement Learning and Data Mining”, Invited talk at Singapore Management University, May 29, 2017.
15. “Individual Planning in Open and Typed Agent Systems”, PI Meeting, Office of Naval Research, Washington, D.C., August 24, 2016.
16. “Robots, Reinforcement Learning and Data Mining”, Keynote talk at Agents and Data Mining Workshop, AAMAS, May 9, 2016.
17. “Generalizing Inverse Reinforcement Learning to the Real World”, Invited talk at University of Nebraska at Lincoln, Lincoln, October 22, 2015.
18. “Intelligent Frameworks for Application in the Smart Grid”, Invited talk at Delft University of Technology, Delft, Netherlands, August 26, 2015.
19. “Online Planning in Multiagent Settings with Limited Model Spaces”, PI Meeting, Office of Naval Research, Washington, D.C., August 13, 2015.
20. “Generalizing Inverse Reinforcement Learning to the Real World”, Hosted talk at Ben Gurion University of the Negev, Israel, June 14, 2015.
21. “Generalizing Inverse Reinforcement Learning to the Real World”, Invited talk at CPAMI Institute, University of Waterloo, Waterloo, Canada, May 6, 2015.
22. “Generalizing Inverse Reinforcement Learning to the Real World”, Hosted talk at University of Michigan, Ann Arbor, April 21, 2015.
23. “Generalizing Inverse Reinforcement Learning and Automated Decision Making in Multiagent Settings”, Hosted talk at Toyota Research Institute of N.A., Toyota, Ann Arbor, April 20, 2015.
24. “Generalizing Inverse Reinforcement Learning to the Real World”, Hosted talk at University of Illinois at Chicago, Chicago, April 17, 2015.
25. “Decision-Theoretic Planning in Multiagent Settings”, Invited talk at Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada, Feb 13, 2015.
26. “Equivalences for Compressing Mental Model Spaces in Multiagent Contexts”, PI Meeting on Autonomy, Office of Naval Research (ONR), Washington, D.C., August 13, 2014.
27. “Multiagent Interaction absent Prior Coordination”, Invited talk in Experts Panel at Workshop on Multiagent Interaction without Prior Coordination (MIPC), AAAI, July 28, 2014.
28. “Influence Diagrams for Robust Decision Making in Multiagent Settings”, Hosted talk at City University of New York (CUNY) Graduate Center, New York City, June 19, 2014.
29. Tutorial on Self-Interested Decision Making in Multiagent Settings” , Twelfth International Autonomous Agents and Multiagent Systems Conference (AAMAS), St. Paul, MN, May 6, 2013
30. “Compressing Agent Model Spaces and Modeling Human Recursive Thinking”, Hosted talk at Institute for Creative Technologies (ICT), USC, September 17, 2013.
31. “Compressing Agent Model Spaces and Modeling Human Recursive Thinking”, Keynote talk at Plan, Activity, and Intent Recognition (PAIR) Workshop, AAAI, July 15, 2013.
32. “On the Impossibility of Reaching Equilibria in Interactive POMDPs”, Faculty of Economics, University of Tokyo, and Faculty of Information Science, Kyushu University, Japan, August 10, 2012.
33. “Automated Composition of Web Services: Moving Beyond toy Problems”, IBM India Research Labs, Bangalore, January 7, 2011.
34. “Automated Composition of Web Services: Moving Beyond Toy Problems”, Infosys SETLabs, Bangalore, January 6, 2011.
35. “Individual Decision Making in Large-Scale and Uncertain Multiagent Environments”, AFOSR Grant Review Meeting, Arlington, VA, January, 2009.
36. “Semantics and Services Enabled Problem-Solving Environment for Trypanosoma Cruzi”, 2008 NCBC All Hands Meeting, Bethesda, Maryland, August 14, 2008.
37. “Semantic Reconciliation of Sensor Net Meta-data”, Browsing the Physical World in Real-Time Panel, Microsoft Research Faculty Summit, July 29, 2008.
38. “Individual Decision-Making in Uncertain and Large-Scale Multiagent Environments”, AFOSR Grant Review Meeting, Arlington, VA, January, 2008.
39. “End-to-End Semantics in Sensor Net 2.0”, SensorNet 2.0 Panel, Microsoft Research Faculty Summit, July 17, 2007.
40. “Toward Optimal and Efficient Self-Adaptation in Large Web Processes”, Dagstuhl Research Seminar on Autonomous and Adaptive Web Services, Schloss Dagstuhl, Germany, February 2007.
41. “Toward Optimal and Efficient Adaptation in Web Processes”, IBM India Research lab (IRL), India, January 2, 2007.
42. “Tutorial on Stochastic Optimization Frameworks”, Fifth Annual Practical AI Workshop (PAIW) for Businesses and Industry, AI Center, UGA, May 2006.
43. “Planning in Complex Multiagent Settings”, Dept. of Computer Science, Drexel University, February 2005.
44. “Nested Belief Systems”, AI Seminar Series, Dept. of Computer Science, University of Illinois at Chicago, January 2004.
45. “Solving the Tiger Problem: A Comparison of Single agent and Multiagent Solutions”, AI Seminar Series, Dept. of Computer Science, University of Illinois at Chicago, September 2003.
46. “Semantic Web Services”, IBM T.J. Watson Research Center, Hawthorne, August 2002.

**CONFERENCE PRESENTATIONS:**

1. “Anytime Learning of Sum-Product and Sum-Product-Max Networks” *International Conference on Probabilistic Graphical Models (PGM),* October 5, 2022.
2. “Marginal MAP Estimation for Inverse RL under Occlusion with Observer Noise”. *Conference on Uncertainty in AI (UAI),* August 3, 2022.
3. “Data-Driven Decision-Theoretic Planning using Recurrent Sum-Product-Max Networks”, *International Conference on Automated Planning and Scheduling (ICAPS)*, August 5, 2021.
4. “Evacuate or Not? A POMDP Model of the Decision Making of Individuals in Hurricane Evacuation Zones”, *Conference on Uncertainty in AI*, Tel-Aviv, Israel, July 25, 2019.
5. “Online Inverse Reinforcement Learning under Occlusion”, *Eighteenth International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, May 16, 2019.
6. “Inverse Learning of Robot Behavior for Collaborative Planning”, *National Robotics Initiative PI Meeting*, Arlington, VA, October 30, 2018
7. “Tutorial on Inverse Reinforcement Learning: Challenges, Methods and Progress”, *AAAI Conference on Artificial Intelligence*, New Orleans, February 2, 2018.
8. “A Layered HMM for Predicting Motion of a Leader in Multi-Robot Settings”, IEEE International Conference on Robots and Automation (ICRA), Singapore, May 30, 2017.
9. “Inverse Reinforcement Learning under Noisy Observations”, Autonomous Agents and Multi-Agent Systems Conference (AAMAS), Sao Paolo, Brazil, May 7, 2017.
10. “Tutorial on Type-Based Methods for Interaction in Multiagent Systems”, *AAAI Conference on Artificial Intelligence,* Phoenix, Arizona, February 12, 2016.
11. “On the Complexity of Verifying Finite State Equilibrium in Repeated Games with Imperfect Private Monitoring using POMDPs”, *Workshop on Multiagent Sequential Decision Making under Uncertainty (MSDM),* AAMAS, Istanbul, Turkey, May 5, 2015.
12. “Improved Planning for Infinite-Horizon Interactive POMDPs using Probabilistic Inference”, *Workshop on Distributed and Multi-Agent Planning (DMAP),* ICAPS, Jerusalem, Israel, June 7, 2015.
13. “Canonical Forms and Similarity of Complex Concepts for Improved Ontology Alignment”, *IEEE/ACM/WIC Web Intelligence (WI)*, Atlanta, GA, November 19, 2013.
14. “Speeding Up Batch Alignment of Large Ontologies using MapReduce”, *Seventh IEEE International Conference on Semantic Computing (ICSC)*, Irvine, CA, September 18, 2013.
15. “Tutorial on Self-Interested Decision Making in Multiagent Settings”, *Twelfth International Autonomous Agents and Multiagent Systems Conference (AAMAS),* St. Paul, Minnesota, May 6, 2013.
16. “Tutorial on Decision Making in Multiagent Settings”, Eleventh International Autonomous Agents and Multiagent Systems Conference (AAMAS), Valencia, Spain, June 4, 2012.
17. “Improved Use of Partial Policies for Identifying Behavioral Equivalence”, Eleventh International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Valencia, Spain, June 6, 2012.
18. “Modeling Deep Strategic Reasoning by Humans in Competitive Games”, Poster, Eleventh International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Valencia, Spain, June 6, 2012.
19. “Utilizing Partial Policies for Identifying Equivalence of Behavioral Models”, Twenty-Fifth Conference on Artificial Intelligence (AAAI), San Francisco, August 11, 2011.
20. “Tutorial on Decision Making in Multiagent Settings”, Tenth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Taipei, Taiwan, May 2, 2011.
21. “Individual Localization and Tracking in Multi-Robot Settings with Dynamic Landmarks”, Workshop on Autonomous Robots and Multirobot Systems (ARMS), AAMAS, Taipei, Taiwan, May 2, 2011.
22. “Risk Sensitive Value of Changed Information for Selective Querying of Web Services”, International Conference on Service-Oriented Computing (ICSOC), San Francisco, December 8, 2010.
23. “Tutorial on Decision Making in Multiagent Settings”, Ninth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Toronto, Canada, May 10, 2010.
24. “Speeding up Exact Solutions of Interactive Dynamic Influence Diagrams Using Action Equivalence”, Twenty-First International Joint Conference on Artificial Intelligence (IJCAI), Pasadena, CA, July 14, 2009.
25. “Improved Approximation of interactive Dynamic Influence Diagrams Using Discriminative Model Updates”, Eighth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Budapest, Hungary, May 14, 2009.
26. “Compact Approximations of Mixture Distributions for State Estimation in Multiagent Settings”, Eighth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Budapest, Hungary, May 13, 2009.
27. “Two Level Recursive Reasoning by Humans Playing Sequential Fixed-Sum Games”, Workshop on Multiagent Sequential Decision Making, AAMAS, Budapest, May 11, 2009.
28. “Tutorial on Decision Making in Extended Multiagent interactions”, Eighth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Budapest, Hungary, May 10, 2009.
29. “Generalized point Based Value Iteration for Interactive POMDPs”, Twenty-Third Conference on Artificial Intelligence (AAAI), Chicago, July 17, 2008.
30. “Tutorial on Decision Making in Extended Multiagent Interactions”, Seventh International Autonomous Agents and Multiagent Systems Conference (AAMAS), Estoril, Portugal, May 2008.
31. “Graphical Models for Online Solutions to Interactive POMDPs”, Sixth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Honolulu, Hawaii, May 18, 2007.
32. “Adaptive Web Processes Using Value of Changed Information”, Fourth International Conference on Service-Oriented Computing (ICSOC), Chicago, IL, Dec 5, 2006.
33. “A Hierarchical Framework for Composing Nested Web Processes”, Fourth International Conference on Service-Oriented Computing (ICSOC), Chicago, IL, Dec 5, 2006.
34. “Inexact Matching of Ontology Graphs Using Expectation-Maximization”, Twenty-First Conference on Artificial Intelligence (AAAI), Boston, MA, July 18, 2006.
35. “On the Difficulty of Achieving Equilibrium in Interactive POMDPs”, Twenty-First Conference on Artificial Intelligence (AAAI), Boston, MA, July 19, 2006.
36. “Exact Solutions to Interactive POMDPs Using Behavioral Equivalence”, Fifth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Hakodate, Japan, May 10, 2006.
37. “Interactive Dynamic Influence Diagrams”, Workshop on Game Theory and Decision Theory, AAMAS, Hakodate, Japan, May 8, 2006.
38. “On the Difficulty of Achieving Equilibrium in Interactive POMDPs”, Ninth International Symposium on Artificial Intelligence and Mathematics (AMAI), Ft. Lauderdale, FL, January 5, 2006.
39. “Approximating State Estimation in Multiagent Settings using Particle Filters”, Fourth International Autonomous Agents and Multiagent Systems Conference (AAMAS), Utrecht, Netherlands, July 26, 2005.
40. “A Framework for Optimal Sequential Planning in Multiagent Settings”, Ninth AAAI/SIGART Doctoral Consortium, AAAI, San Jose, CA, July, 2004.
41. “A Framework for Sequential Planning in Multiagent Settings”, Sixth International Workshop on Game Theory and Decision Theory (GTDT), New York, NY, July 20, 2004.
42. “A Particle Filtering Algorithm for Interactive POMDPs”, Workshop on Modeling Other Agents from Observations (MOO), AAMAS, New York, NY, July 19, 2004.
43. “A Framework for Sequential Planning in Multiagent Settings”, AI&M 9-2004, Eighth International Symposium on Artificial Intelligence and Mathematics (AMAI), Ft. Lauderdale, FL, January 5, 2004.
44. “Using Bayesian Networks for Cleansing Trauma Data”, Sixteenth International FLAIRS Conference, St. Augustine, FL, May 13, 2003.
45. “Towards Effective Structure Learning for Large Bayesian Networks”, AAAI Workshop on Probabilistic Approaches in Search, Edmonton, Canada, July 28, 2002.
46. “On Retaining Intermediate Probabilistic Models When Building Bayesian Networks”, AAAI Fall Symposium on Using Uncertainty Within Programming, North Falmouth, MA, November 2, 2001.

**CREATIVE CONTRIBUTIONS:**

1. Problem solving using POMDPs: A Web portal for solving single- and multi-agent planning problems under uncertainty using POMDPs, Dec-POMDPs and I-POMDPs.
2. AskCuebee: A Framework for Ontology-Based Question Answering with Application to Parasite Immunology, Invention disclosure filed with OVPR
3. Haley: A software system for end-to-end composition of web services
4. Optima+: A tool for automatic ontology alignment; *Tied at 2nd place among 23 entries in the Conference track of the annual Ontology Alignment Evaluation Initiative competition, 2012.*
5. GaTAC: Georgia Testbed for Autonomous Control of Vehicles

**SUPERVISION OF STUDENT RESEARCH** (2 Postdoctoral associates, 19 PhD dissertations, 31 MS theses)**:**

1. Aditya Shinde, PhD in progress.
2. Ehsan Asali, PhD in progress
3. Prasanth Suresh, PhD in progress
4. Yikang Gui, PhD in progress
5. Daniel Redder, PhD in progress
6. Wei Ruan, PhD, in progress
7. Pranav Pandey, PhD in progress, co-advisor
8. Garrison Vanzin, PhD in progress, co-advisor
9. Gayathri Anil, MSAI in progress
10. Anusha Challa, MSAI, in progress
11. Jonathan Porter Squires, MSCS, in progress
12. Mathew Sentell, MSCS, in progress
13. Junhuan Zhang, Post-doctoral associate, 2015-2016 – *joined Beijing University as Asst. Professor.*
14. Yingke Chen, Post-doctoral associate, 2014 – 2015 – *joined Sichuan University as Asst. Professor.*
15. Haibo Zhao, PhD, “Scalable Compositions of Web Services under Uncertainty”, August 2009 – *Winner of the 2008-09 UGA Graduate School Dissertation Completion Award; joined Google, Inc.*
16. John Harney, PhD, “Selective Querying for Adapting Web Service Compositions using the Value of Changed Information”, August 2010 – *Winner of the 2010 Computer Science Outstanding Graduate Student Award and 2009 UGA Outstanding Teaching Assistant Award; joined Oak Ridge National Labs*
17. Uthayasanker Thayasivam, PhD, “Algorithms for Complete, Scalable, and Efficient Alignment of Large Ontologies”, July 2013 – *Winner of the 2012-2013 UGA Graduate School Dissertation Completion Award; joined Ask.com*
18. Amir Asiaee, PhD, A Framework for Ontology-Based Question Answering with Application to Parasite Immunology”, December 2013 – *joined Yahoo! Search.*
19. Xia Qu, PhD, PhD, “Strategic Behavior Under Uncertainty in Multiagent Settings”, July 2014 – *Winner of the Best Poster at the 2010 CS Research Day; joined Epic systems*
20. Ekhlas Sonu, PhD, “Scalable Algorithms for Sequential Decision Making under Uncertainty in Multiagent Settings”, July 2015 –  *joined University of Texas at Austin as postdoctoral associate.*
21. Kenneth Bogert, PhD, “Inverse Reinforcement Learning for Robotic Applications: Hidden Variables, Multiple Experts and Unknown Dynamics”, July 2016 *– joined University of North Carolina at Asheville as tenure-track assistant professor.*
22. Muthukumaran Chandrasekaran, PhD, “Frameworks and Algorithms for Individual Planning Under Cooperation”, July 2017 -- *joined as Research Scientist in Schlumberger-Doll Research Institute*
23. Roi Ceren, PhD, “Optimal decision-making in mixed-agent partially observable stochastic environments via reinforcement learning”, August 2010 – July 2017 (graduated under the supervision of Shannon Quinn in 2018) *– joined Sales Loft as Data Scientist*
24. Keyang He, PhD, “Multiagent Reinforcement Learning under Partial Observability”, May 2023 – *joined as Staff Researcher in Amazon AI*
25. Saurabh Arora, PhD, “Framework and Algorithms for Online Inverse Reinforcement Learning under Imperfect Observations”, July 2023 – *joined Oracle*
26. Dennis P. Barrenechea, MSAI, “Anytime Point Based Approximations for Interactive POMDPs”, December 2007.
27. Ravikanth Kolli, MSCS, “Scalable Matching of Ontology Graphs Using Partitioning”, August 2008.
28. Sharon Paradesi, MSCS, “Integrating Trust and Reputation in Web Service Compositions”, December 2009 – *Winner of a Systers Pass-it-on grant from the Anita Borg Institute of Women and Technology; joined doctoral program of MIT*
29. Muthukumaran Chandrasekharan, MSAI, “Approximate Model Equivalence for dynamic Influence Diagrams”, May, 2010 – *joined doctoral program of UGA*
30. Nithya Vembu, MSAI, “A Translator Web Service for Data Mediation between Web Services”, April 2011.
31. Anousha Shoulami, MSCS, “Individual Localization using Landmarks in the Presence of Interacting Robots”, May 2012 – *Winner of the 2011-2012 Computer Science Department’s Outstanding MS Student and Outstanding MS Thesis Award*
32. Tejas Chaudhari, MSCS, “Complex Concept Matching for Improved Ontology Alignment”, December 2012.
33. Kedar Marathe, MSAI, “An Adaptive Nested Particle Filter with Advanced Weighting to Handle Localization and Tracking under Extreme Sensory Occlusion”, December 2014.
34. Yu Qiu, MSCS, “The Complexity of Verifying the Finite State Equilibrium in Repeated Games with Imperfect Private Monitoring”, May 2015 – *Winner of the 2014-2015 Computer Science Department’s Outstanding MS Thesis Award*
35. Indrajit Verma, MSCS, “Inverse Reinforcement Learning of Risk-Sensitive Utility”, June 2016.
36. Maulesh Trivedi, MSAI, “Inverse Learning of Robot Behavior for Ad-Hoc Teamwork”, July 2016.
37. Sina Solaimanpour, MSCS, “A Layered HMM for Predicting Motion of a Leader in Multi-Robot Settings”, December 2016 – *joined Google*
38. Shervin Shahryari, MSAI, “Inverse Reinforcement Learning under Noisy Observations”, December 2016.
39. Sanath Bhat, MSCS, “Learning Driver Preferences for Freeway Merging using Multitask IRL”, May 2017.
40. Vinamra Jain, MSCS, “Maximum Likelihood Approach for Model-Free Inverse Reinforcement Learning”, December 2017.
41. Anuja Nagare, MSCS, “Model-Based IRL with Continuous Action Spaces”, July 2018 – *Winner of Women in Machine Learning (WiML) and CRA-W travel scholarships*
42. Nihal Soans, MSCS, “Deep Neural Network for Recognition of State and Action Trajectories from RGB-D Data”, December 2018
43. Aditya Raam Sankar, MSAI, “Evacuate or Not? Modeling the Decision Making of Individuals in Hurricane Evacuation Zones using Influence Diagrams”, March 2019 – joined Oracle AI group
44. Maulik Shah, MSAI, “Scalable Individual Planning in Open and Typed Agent Systems”, April 2019
45. Sohan Nipunage, MSAI, “Rae: An agent for modeling human decision problems as POMDPs”, June 2019.
46. Hari Tatavarti, MSAI, “Recurrent Sum-Product-Max Networks for Decision Making in Perfectly-Observed Environments”, July 2020
47. Aditya Shinde, MSAI, “Active Cyber Deception and Attacker Intent Recognition using Factored Interactive POMDPs”, July 2020
48. Muhammed AbuOdeh, MSCS, “Cyber Attack Storyline Generation using Hidden Markov Models”, July 2020.
49. Anirudh Maurya Kakarlapudi, MSAI, “Decision-Theoretic Planning with Communication in Open and Typed Multi-Agent Systems”, July 2021.
50. Swaraj Pawar, MSCS, “Anytime Algorithms for Learning Sum Product Networks and Sum Product Max Networks”, December 2021.
51. Gengyu Zhang, MSAI, “SIPOMDPLite-net: Lightweight Self-Interested Learning and Planning in Partially Observable Multiagent Settings with Sparse Interactions”, December 2021.
52. Evan Johnston, MSCS, “A Novel Cloud-Based ToolKit for Inverse Reinforcement Learning”, July 2022.
53. Bhavana Nare, MSCS, “A Computational Model of Robot Trust in Human-Robot Teams”, July 2023.

**Early Career Student Mentoring:**

1. William Gautreaux, undergraduate research assistant in robotics and supported by GRA Phase 1 grant, 2022.
2. Shawn Holman, undergraduate lab administrator and supported by IDC, 2020-2021.
3. Sonia Rao, undergraduate research assistant in robotics and supported by IDC, 2020.
4. Tyler Kitchens, undergraduate lab administrator and supported by IDC, 2019-2020.
5. Michael Mappes, undergraduate lab administrator and supported by IDC, 2018
6. Alex Goldberg, undergraduate research assistant in robotics for STEM education and supported by UGARF IPD Grant, 2015
7. Casey Hetzler, undergraduate research assistant in robotics and supported by the Research Experiences for Undergraduates supplement from NSF, 2014
8. Ernst Melias, undergraduate research assistant in robotics for STEM education and supported by a UGA Learning Technology Grant, 2014
9. Shivan Ahmady, undergraduate research assistant in robotics for STEM education and supported by a UGA Learning Technology Grant, 2014
10. Vince Caparell, undergraduate research assistant in robotics and supported by the Research Experiences for Undergraduates supplement from NSF, 2013
11. David Millard, undergraduate research assistant in robotics and supported by the Research Experiences for Undergraduates supplement from NSF, 2013
12. Jay Elrod, undergraduate research assistant in multiagent systems and supported by the Research Experiences for Undergraduates supplement from NSF, 2013
13. Emily Wall, undergraduate research assistant in robotics and supported by the Research Experiences for Undergraduates supplement from NSF, 2013
14. Ryan Gell, undergraduate research assistant in behavioral studies and supported by the Undergraduate Research Apprentice Program supplement from ARO, 2012
15. Amandah Falls, undergraduate research assistant in multiagent systems and supported by the Undergraduate Research Apprentice Program of the Army Research Office, 2011
16. Faculty mentor for the UGA Young Dawgs High School Apprentice program

Alex Poole, Spring 2013, Steven Thomas, Summer 2012; William Beckham, Fall 2011; Harrison Katz, Fall 2010; Joshua Harper, Summer 2010)

**UNIVERSITY SERVICE:**

Co-Organizer and Panel Moderator, UGA AI Research Day, November 2022

Founding Director, Faculty of Robotics, 2012-2018.

Invited member of the steering committee of Interdisciplinary Certificate on Creativity and Innovation, Torrance Center for Innovation, College of Education, 2013.

Invited member of James L. Carmon Scholarship Selection Committee, OVPR, 2012-2015

Interim Graduate Coordinator, Institute for Artificial Intelligence, Spring 2012.

Member of AI Institute Faculty, 2005 – present.

Supervised four Young Dawgs Program Students (Joshua Harper, Summer 2010, Harrison Katz, Fall 2010, William Beckham, Fall 2011, and Steven Thomas, Summer 2012).

Faculty Advisor, Indian Student Association, 2011-2013

**DEPARTMENTAL SERVICE:**

Member of the SoC Director Search Committee, 2022-2023.

Member of SoC Committee on Research & Scholarship Opportunities, 2021-2022

Member of Vision and Strategic Planning Committee, 2020.

Member of CS taskforce on Future School of Computing, 2020.

Member of the Department Program Review Committee, 2013.

Member of the Head’s Advisory Committee

Member of the Department Curriculum Committee, 2011-2013

Member of the Department Strategic Planning Committee, 2017

Chair of the Department Web Site Committee, 2009 – present

Member of Department Assessment and Accreditation Committee, 2012

Chair of Department Assessment Committee, 2010

Appointed to the Regular Graduate Faculty, (2005 – present).

**COMMUNITY SERVICE:**

Judge at the Fall Research Conference 2007 of the NSF Sponsored Peach State Louie Stokes Alliance for Minority Participation (PSLSAMP)