

Sriraam Natarajan, Ph.D.
Professor
Department of CS
Erik Jonsson School of Engineering & Computer Science,
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Research Interests: Artificial Intelligence, Machine learning, Graphical models, Relational learning with emphasis on learning predictive models for clinical events.

Education

- Ph.D. in Computer Science, Oregon State University, 2007: “Effective Decision-Theoretic Assistance Through Relational Hierarchical Models” (Advisor: Prasad Tadepalli)
- M.S. in Computer Science, Oregon State University, 2004: “Multi-Criteria Average Reward Reinforcement Learning” (Advisor: Prasad Tadepalli)
- B.E. in Computer Science, University of Madras, 2001.

Appointments

- Professor, Department of Computer Science, The University of Texas at Dallas [September 1 2020 - Present]
- Adjunct Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Madras, India [May 1 2020 - Present]
- Director, Center of Machine Learning, UT Dallas [September 2018-Present]
- Adjunct Professor, School of Informatics, Computing and Engineering, Indiana University [July 1 2017 - Present]
- Associate Professor, Department of Computer Science, The University of Texas at Dallas [June 2017 - August 2020]
- Associate Professor, School of Informatics and Computing, Indiana University, Bloomington, IN [July 2016 - July 2018].
- Assistant Professor, School of Informatics and Computing, Indiana University, Bloomington, IN [June 2013 - June 2016].
- Assistant Professor, Translational Science Institute, Wake Forest University School of Medicine, Winston-Salem, NC [Dec 2010 - June 2013].
- Assistant Professor, Wake Forest-Virginia Tech School of Biomedical Engineering and Sciences, Winston-Salem, NC [Dec 2010 - June 2013].
- Visiting Assistant Professor, Department of Computer Science, University of North Carolina, Charlotte, NC [June 2011 - June 2013].
- Associate Assistant Professor, Department of Computer Science, Wake Forest University, Winston-Salem, NC [June 2011 - June 2014].
- Post-Doc, Department of Biostatistics and Medical Informatics, University of Wisconsin, Madison, WI [Jan 2008 - Nov 2010].

Grants

- ARO Single Investigator award: Efficient learning of deep tractable probabilistic models
\$384,000, Role: PI 08/01/20-07/31/23
- NIH R01: Predicting Adverse Pregnancy Outcomes
\$420,000, Role: Co-I PI: David Haas 08/01/20-07/31/22
- DARPA Minerva, Science Genome
\$500,000 Role: Co-I PI: YY Ahn. 8/1/19 - 7/31/24
- AFOSR Efficient Learning with Human-in-the-Loop in Structured, Noisy and Temporal Domains
\$286,329 Role: PI. 8/1/18 - 8/31/21
- NSF EAGER An Unified Learnable Roadmap for Sequential Decision Making in Relational Domains
\$98,522 Role: PI. 9/1/18 - 8/31/20
- NIH R01 Machine Learning for Identifying Adverse Drug Events 07/01/15 - 06/20/19
\$335,000 (my share) Role: Co-PI. PI: David Page
- Indiana University Grand Challenge - Precision Health 09/01/16 - 08/31/20
\$296,000 (my share). Role - Co-PI. PI: Predrag Radivojac.
- DARPA Communicating with Computers 08/1/15 - 07/31/20
\$419,002 (my share) Role: Co-PI. PI: Dan Roth Co-PI: Martha Palmer, Jana Doppa, Julia Hockenmaier.
- NSF Intelligent Clinical Decision Support with Probabilistic and Temporal EHR Modeling 1/1/14
\$680,000 My share: \$280,000. Role: PI - 12/31/18
Co-PIs: Kris Hauser, Shaun Grannis.
- ARO Young Investigator Human-in-the-loop Statistical Relational Learners 9/1/13- 08/31/16
\$150,000 Role: PI
- ARO STIR Human-Machine Collaboration in Relational Sequential Decision-Making Problems 01/01/17-
09/30/2107
\$60,000 Role: PI.
- DARPA DEFT 11/1/12 - 11/21/17
\$350,000 (my share) Role: Co-PI. PI: Jude Shavlik Co-PI: Chris Re.
- Turvo Inc, research gift: Learning for logistics problems 4/1/15- 03/31/18
\$225,000. Role: PI
- XEROX PARC Faculty Award: Learning from an Expert in Noisy, Structured domains: Adapting to
Healthcare Problems 1/15/15
\$90,000 Role: PI - 12/31/17
- AFOSR SBIR: Enhanced Text Analytics Using Lifted Probabilistic Inference Algorithms 10/1/13
\$280,000 Role: Co-PI - 10/30/16
- NIH Adverse Drug Events 10/1/11 - 10/1/14
\$95,000 Role: Sub-contract from University of Wisconsin. PI: David Page
- DARPA Machine Reading 4/1/11 - 12/31/12
\$128,500 Role: Subcontract from SRI International. PI: David Israel.
- NIH Subsystem Modeling Using Dependency Networks 9/1/2012 - 8/31/2013
\$10,000 Role: Co-I. PI: Edward Ip
- WFU Science Research Fund 10/1/11 - 4/30/12
\$8,000 Role: PI

Awards and Honors

- AAAI Senior Member
- Robert Bosch Data Science Distinguished Faculty Fellow, 2020
- Best poster award, EEML 2021
- Best paper award (honorable mention), CoDS-COMAD 2021
- Best Student paper Award, Knowledge-infused Mining and Learning Workshop, KDD 2020
- Verisk Research Faculty Award, 2019
- Amazon Research Faculty Award, 2018
- Intel Faculty Award, 2018
- Turvo Faculty Award, 2018
- Indiana University SOIC Award, Champion of Inclusion, 2017
- Honorary member and invited speaker, American Society of Functional Neuroradiology, 2017
- Best Student Paper Award, International Conference on Inductive Logic Programming, 2016
- Best Student Paper Award, BeyondLabeller Workshop, IJCAI 2016
- Faculty Award, PARC XEROX, 2015
- IU Trustees Award for Teaching Excellence, 2015
- Chair, AAAI Student Abstract and Poster Track 2014 and 2015
- Chair, AAAI Student Outreach 2016
- Young Investigator Award, Army Research Office, 2013
- Honorary member and invited speaker, American Society of Functional Neuroradiology, 2012

Current Students

- Harsha Kokel (PhD), Computer Science, University of Texas at Dallas
- Justin Dula (PhD), Computer Science, University of Texas at Dallas
- Athresh Karanam (PhD), Computer Science, University of Texas at Dallas
- Michael Skinner (PhD), Computer Science, University of Texas at Dallas
- Saurabh Mathur (PhD), Computer Science, University of Texas at Dallas
- Yuqiao Chen (PhD), Computer Science, University of Texas at Dallas
- Siwen Yan(PhD), Computer Science, University of Texas at Dallas
- Brian Ricks (PhD), Computer Science, University of Texas at Dallas (minor advisor)
- Alexander Hayes (PhD), Health Informatics, Indiana University

Alumni Students and Post-Docs

- Devendra Dhami 2020 (PhD, Computer Science, University of Texas at Dallas
- Srijita Das 2020 (PhD), Computer Science, University of Texas at Dallas
- Nandini Ramanan 2020 (PhD), Computer Science, University of Texas at Dallas
- Navdeep Kaur 2020 (PhD), Computer Science, University of Texas at Dallas
- Vignesh Rangasamy 2020 (MS), Computer Science, University of Texas at Dallas
- Mayukh Das 2019 (PhD), Computer Science, University of Texas at Dallas
- Yuxin Zi 2019 (MS), Computer Science, University of Texas at Dallas
- Phillip Odom, 2017 (PhD), Computer Science, Indiana University
- Shuo Yang, 2017 (PhD), Informatics, Indiana University
- Vignesh Suresh Babu Kishore 2017 (MS), Computer Science, Indiana University
- Dileep Viswanathan 2016 (MS), Computer Science, Indiana University
- Vignesh Vijayaraghavan 2016 (MS), Computer Science, Indiana University
- Shreya Maruthi 2016 (MS), Computer Science, Indiana University
- Rahul Pasanuri 2016 (MS), Computer Science, Indiana University
- Aniket Gaikwad 2016 (MS), Computer Science, Indiana University
- Vishal Bangera, 2015 (MS), Computer Science, Indiana University
- Anurag Wazalwar, 2015 (MS), Computer Science, Indiana University
- Tushar Khot, 2014 (PhD), University of Wisconsin-Madison (co-advised with Jude Shavlik)
- Shrutika Poyrekar 2014 (MS), Computer Science, Indiana University
- Baidya Saha 2013 (Post-Doc) Wake Forest University
- Jose Picado, 2013 (MS), Dept of Computer Science, Wake Forest University
- Richard Freedman, 2012 (BS), Dept of Computer Science, Wake Forest University
- Adam Edwards, 2012 (BS), Departments of Philosophy and Physics, Wake Forest University

Books Authored

- Guy Van den Broeck, Kristian Kersting, **Sriraam Natarajan**, and David Poole, Lifted Probabilistic Inference, MIT Press 2020 (forthcoming).
- Kristian Kersting, **Sriraam Natarajan**, David Poole and Luc De Raedt, Statistical Relational AI, *Morgan Claypool*, 2016.
- **Sriraam Natarajan**, Tushar Khot, Kristian Kersting and Jude Shavlik, Boosted Statistical Relational Learners: From Benchmarks to Data-Driven Medicine . SpringerBriefs in Computer Science, ISBN: 978-3-319-13643-1, 2015
- **Sriraam Natarajan**, Intelligent Assistants - A Decision-Theoretic Model: Effective Decision-Theoretic Assistance Through Relational Hierarchical Models, *VDM-Verlag* 2009.

Note: Publications marked with asterisk (*) indicate that I had a primary role - either as a lead author or PI/mentor for the first author.

Journal Publications

- * Nandini Ramanan, Gautam Kunapuli, Tushar Khot, Bahare Fatemi, Mehran Kazemi, David Poole, Kristian Kersting, and **Sriraam Natarajan**, Structure Learning for Relational Logistic Regression: An Ensemble Approach, *Data Mining and Knowledge Discovery (DMKD) Journal* 2021.
- * Mayukh Das, Nandini Ramanan, Janardhan Rao Doppa and **Sriraam Natarajan**, Human-Guided One-shot Concept Learning: A Distance-based Refinement Approach, *Frontiers in Robotics and AI*, 2020.
- * Nandini Ramanan and **Sriraam Natarajan**, Ensemble Causal Learning, *Frontiers in Machine Learning and AI*, 2020.
- * Raksha Kumaraswamy, Nandini Ramanan, Phillip Odom, **Sriraam Natarajan**, Interactive Transfer Learning in Relational Domains, *KUIN Springer Journal* 2020.
- * Navdeep Kaur, Gautam Kunapuli and **Sriraam Natarajan**, Non-Parametric Learning of Lifted Restricted Boltzmann Machines, *International Journal of Approximate Reasoning* (2020).
- * Mayukh Das, Phillip Odom, Md Rakibul Islam, Jana Doppa, Dan Roth and **Sriraam Natarajan**, Planning with actively eliciting preferences, *Knowledge-Based Systems* (2018).
- * Phillip Odom and **Sriraam Natarajan**, Human-Guided Learning for Probabilistic Logic Models *Frontiers in Robotics and AI journal special issue on Statistical Relational Artificial Intelligence* (2018).
- Robert Cruise, Erik Blasch, **Sriraam Natarajan** and Ali Raz, Cyber-Physical Command-Guided Swarm, *DSIAC journal Spring 2018: Volume 5 Number 2*, 2018.
- * Shuo Yang, Mohammed Korayem, Khalifeh Aljadda, Trey Grainger and **Sriraam Natarajan**, Combining Content-based and Collaborative Filtering for Recommendation Systems: A Cost-sensitive Statistical Relational Learning Approach, *Knowledge Based Systems*, 2017.
- Kristian Kersting and **Sriraam Natarajan**, Statistical Relational Artificial Intelligence: From Distributions through Actions to Optimization, *Kunstliche Intelligenz, Special Issue on Advances in Autonomous Learning*, Springer 2015.
- * Tushar Khot, **Sriraam Natarajan**, Kristian Kersting, Bernd Gutmann and Jude Shavlik, Gradient-based Boosting for Statistical Relational Learning: The Markov Logic Network and Missing Data Cases, *Machine Learning Journal*, 2015.
- Fabian Hadiji, Alejandro Molina, **Sriraam Natarajan** and Kristian Kersting, Poisson Dependency Networks - Gradient Boosted Models for Multivariate Count Data, *ECML-PKDD Journal Track*, 2015.
- * **Sriraam Natarajan**, Vishal Banger, Tushar Khot, Jose Picado, Anurag Wazalwar, Vitor Santos Costa, David Page and Michael Caldwell, A Novel Method for Adverse Drug Event Extraction from Text, *Journal of Biomedical Informatics*, 2015 (To appear).
- Alan Fern, **Sriraam Natarajan**, Kshitij Judah and Prasad Tadepalli, A Decision-Theoretic Model of Assistance, *Journal of Artificial Intelligence Research (JAIR)*, Volume 50, pp 71-104, 2014.
- Babak Ahmadi, Kristian Kersting, Martin Mladenov and **Sriraam Natarajan**, Exploiting Symmetries for Scaling Loopy Belief Propagation and Relational Training, *Machine Learning Journal (MLJ)*, Volume 92, Issue 1, pp 91-132, 2013.
- * **Sriraam Natarajan**, Tushar Khot, Kristian Kersting, Bernd Gutmann and Jude Shavlik, Gradient-based Boosting for Statistical Relational Learning: The Relational Dependency Network Case, *Machine Learning Journal (MLJ)*, Volume 86, Number 1, 25-56, 2012.
- * **Sriraam Natarajan**, Baidya Saha, Saket Joshi, Adam Edwards, Tushar Khot, Elizabeth Davenport, Kristian Kersting, Christopher Whitlow and Joseph Maldjian, Relational Learning helps in Three-way Classification of Alzheimer Patients from Structural Magnetic Resonance Images of the Brain, *Journal of Machine Learning and Cybernetics* Vol 5, pp, 59-669, 2012.

- * **Sriraam Natarajan**, Prasad Tadepalli and Alan Fern, A Relational Hierarchical Model of Decision-Theoretic Assistance, Knowledge and Information Systems (KAIS), Vol 32, No 2, pp 329-349 2012.
- * Jeremy Weiss, **Sriraam Natarajan**, Peggy Peissig, Catherine McCarty and David Page, Statistical Relational Learning to Predict Primary Myocardial Infarction from Electronic Health Records, *Invited Contribution to AI Magazine* 2012.
- David Page and **Sriraam Natarajan**, Biomedical Informatics, *Encyclopedia of Machine Learning* 2010.
- **Sriraam Natarajan**, Prasad Tadepalli, Thomas G. Dietterich and Alan Fern, Learning First-Order Probabilistic Models with Combining Rules, *Annals of Mathematics and AI, Special Issue on Probabilistic Relational Learning*, Volume 54, Issue 1-3, pp 223-256, 2008.
- Neville Mehta, **Sriraam Natarajan**, Prasad Tadepalli and Alan Fern, Transfer in Variable Reward Hierarchical Reinforcement Learning, *Machine Learning (MLJ)*, 2008.

Conference Publications

- * Yuqiao Chen, **Sriraam Natarajan** and Nicholas Ruoizzi, Relational Neural Markov Random Fields, *International Conference on AI and Statistics, AISTATS*, 2022.
- Matej Zeevi, * Devendra Singh Dhami, * Athresh Karanam, **Sriraam Natarajan**, and Kristian Kersting, Interventional Sum-Product Networks: Causal Inference with Tractable Probabilistic Models, *Neural Information Processing Systems, NeurIPS*, 2021.
- * Devendra Dhami, Mayukh Das and **Sriraam Natarajan**, Beyond Simple Images: Human Knowledge-Guided GANs for Clinical Data Generation, *8th International Conference on Principles of Knowledge Representation and Reasoning (KR)* 2021.
- * Harsha Kokel, Arjun Manoharan, **Sriraam Natarajan**, Balaraman Ravindran and Prasad Tadepalli, RePreL : Integrating Relational Planning and Reinforcement Learning for Effective Abstraction, *International Conference on Automated Planning and Scheduling (ICAPS)* 2021.
- * Athresh Karanam, Alexander Hayes, Harsha Kokel, David Haas, Predrag Radivojac, and **Sriraam Natarajan**, A Probabilistic Approach to Extract Qualitative Knowledge for Early Prediction of Gestational Diabetes , *19th International Conference in Artificial Intelligence in Medicine(AIME)* 2021.
- * Devendra Dhami, Siwen Yan, Gautam Kunapuli, David Page, and **Sriraam Natarajan**, Predicting Drug-Drug Interactions from Heterogeneous Data: An Embedding Approach, *19th International Conference in Artificial Intelligence in Medicine(AIME)* 2021.
- * Ashutosh Kakadiya, **Sriraam Natarajan** and Balaraman Ravindran, Relational Boosted Bandits, *Thirty Fifth AAAI Conference on Artificial Intelligence (AAAI)* 2021.
- * Srijita Das, Rishabh Iyer and **Sriraam Natarajan**, A Clustering based Selection Framework for Cost Aware and Test-time Feature Elicitation, *ACM India Joint International Conference on Data Science & Management of Data (CODS-COMAD)* 2021. (Best Paper Honorable Mention)
- * Mayukh Das, Devendra Dhami, Yang Yu, Gautam Kunapuli, and **Sriraam Natarajan**, Human-Guided Learning of Column Networks: Knowledge Injection for Relational Deep Learning, *ACM India Joint International Conference on Data Science & Management of Data (CODS-COMAD)* 2021.
- * Srijita Das, **Sriraam Natarajan**, Kaushik Roy, Kristian Kersting and Ron parr, Fitted Q-Learning for Relational Domains , *Knowledge Representation and Reasoning (KR)* 2020.
- * Nandini Ramanan, Mayukh Das, Kristian Kersting and **Sriraam Natarajan**, Discriminative Non-Parametric Learning of Arithmetic Circuits, *Probabilistic Graphical Models Conference PGM* 2020.
- Yibo Yang, Yuqiao Chen*, **Sriraam Natarajan** and Nicholas Ruoizzi, Lifted Hybrid Variational Inference, *International Joint Conference in AI, IJCAI* 2020.

- * Srijita Das, Sriraam Natarajan, Kaushik Roy, Ronald Parr and Kristian Kersting, Fitted Q-Learning for Relational Domains, *International Conference on Principles of Knowledge Representation and Reasoning (KR)* (poster paper) 2020.
- * Harsha, Kokel, Phillip Odom, Shuo Yang, and **Sriraam Natarajan**, Unified Framework for Knowledge Intensive Gradient Boosting: Leveraging Human Experts for Noisy Sparse Domain, *Thirty Fourth AAAI Conference on Artificial Intelligence (AAAI)* 2020.
- * Yuqiao Chen, Nicholas Ruoizzi, and **Sriraam Natarajan**, Lifted Message Passing for Hybrid Probabilistic Inference, *International Joint Conference on Artificial Intelligence (IJCAI)*, August 2019.
- * Mayukh Das, Devendra Singh Dhami, Gautam Kunapuli, Kristian Kersting and **Sriraam Natarajan** Fast Relational Probabilistic Inference and Learning: Approximate Counting via Hypergraphs, In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- * Nandini Ramanan, and **Sriraam Natarajan**, Work-In-Progress: Ensemble Causal Learning for Modeling Post-Partum Depression, *AAAI Spring Symposium on Beyond Curve Fitting - Causation, Counterfactuals and Imagination-Based AI* 2019.
- * Navdeep Kaur, Gautam Kunapuli, Saket Joshi, Kristian Kersting and **Sriraam Natarajan**, Neural Networks for Relational Data, *International Conference on Inductive Logic Programming, (ILP)* 2019.
- * **Sriraam Natarajan**, Srijita Das, Nandini Ramanan, Gautam Kunapuli and Predrag Radivojac, Whom Should I Perform the Lab Test on Next? An Active Feature Elicitation Approach *International Joint Conference on AI (IJCAI)* 2018.
- * Nandini Ramanan, Gautam Kunapuli, Tushar Khot, Bahare Fatemi, Seyed Mehran Kazemi, David Poole, Kristian Kersting and **Sriraam Natarajan**, Structure Learning for Relational Logistic Regression: An Ensemble Approach, *International Conference on Principles of Knowledge Representation and Reasoning (KR)*, 2018.
- * Devendra Singh Dhami, Gautam Kunapuli, Mayukh Das, David Page and **Sriraam Natarajan**, 'Drug-Drug Interaction Discovery: Kernel Learning from Heterogeneous Similarities, *IEEE/ACM 3rd International Conference on Connected Health: Applications, Systems and Engineering Technologies*, 2018.
- * Mayukh Das, Phillip Odom, Md. Rakibul Islam, Jana Doppa, Dan Roth and **Sriraam Natarajan** Preference-Guided Planning: An Active Elicitation Approach, *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 2018.
- * Alejandro Molina, Kristian Kersting, Nicola Di Mauro, Antonio Vergari, **Sriraam Natarajan**, and Floariana Esposito, Mixed Sum-Product Networks: A Deep Architecture for Hybrid Domains, *Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI)*, AAAI Press, 2018.
- * Shuo Yang, Fabian Hadiji, Kristian Kersting, Shaun Grannis and **Sriraam Natarajan**, Modeling Heart Procedures from EHRs: An Application of Exponential Families, *IEEE International Conference on Bioinformatics and Biomedicine (IEEE BIBM)*, 2017.
- * Nandini Ramanan, Shuo Yang, Shaun Grannis, and **Sriraam Natarajan**, Discriminative Boosted Bayes Networks for Learning Multiple Cardiovascular Procedures , *IEEE International Conference on Bioinformatics and Biomedicine (IEEE BIBM)*, 2017.
- * Alexander L. Hayes, Mayukh Das, Phillip Odom, and **Sriraam Natarajan**, User Friendly Automatic Construction of Background Knowledge: Mode Construction from ER Diagrams, *Knowledge Capture Conference (K-CAP)*, 2017.
- * Navdeep Kaur, Gautam Kunapuli, Tushar Khot, William Cohen, Kristian Kersting and **Sriraam Natarajan**, Relational Restricted Boltzmann Machines: A Probabilistic Logic Learning Approach, *Inductive Logic Programming (ILP)* 2017.

- **Sriraam Natarajan**, Annu Prabhakar, Nandini Ramanan, Anna Bagilone, Katie Siek, and Kay Connelly, Boosting for Post Partum Depression Prediction, *IEEE Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE)*, 2017.
- * Devendra Singh Dhami, Ameet Soni, David Page, and **Sriraam Natarajan**, Identifying Parkinson's Patients : A Functional Gradient Boosting Approach, *Artificial Intelligence in Medicine (AIME)* (2017).
- Aljenadro Molina, **Sriraam Natarajan**, and Kristian Kersting, Poisson Sum-Product Networks: A Deep Architecture for Tractable Multivariate Poisson Distributions, *Proceedings of the 31st AAAI Conference on Artificial Intelligence (AAAI)*, AAAI Press, 2017.
- * Phillip Odom, and **Sriraam Natarajan**, Actively Interacting with Experts: A Probabilistic Logic Approach, *European Conference on Machine Learning and Principles of Knowledge Discovery in Databases (ECMLPKDD)* 2016.
- * Marcin Malec, Tushar Khot, James Nagy, Erik Blasch, and **Sriraam Natarajan**, Inductive Logic Programming meets Relational Databases: An Application to Statistical Relational Learning, *International Conference on Inductive Logic Programming (ILP)*, 2016. (**Best Student Paper**)
- * Ameet Soni, Dileep Viswanathan, Jude Shavlik, and Sriraam Natarajan, Learning Relational Dependency Networks for Relation Extraction, International Conference on Inductive Logic Programming (ILP), 2016.
- * Phillip Odom, Raksha Kumaraswamy, Kristian Kersting, and Sriraam Natarajan, Learning through Advice-Seeking via Transfer, International Conference on Inductive Logic Programming (ILP), 2016.
- * Haley MacLeod, Shuo Yang, Kim Oakes, Kay Connelly and Sriraam Natarajan, Identifying Rare Diseases from Behavioural Data: A Machine Learning Approach, First IEEE Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE), 2016.
- * Phillip Odom and **Sriraam Natarajan**, Active Advice Seeking for Inverse Reinforcement Learning , *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 2016.
- * Mayukh Das, Yuqing Wu, Tushar Khot, Kristian Kersting and **Sriraam Natarajan**, Scaling Lifted Probabilistic Inference and Learning Via Graph Databases, *SIAM International Conference on Data Mining (SDM)*, 2016.
- * Shuo Yang, Tushar Khot, Kristian Kersting and **Sriraam Natarajan**, Learning Continuous-Time Bayesian Networks in Relational Domains: A Non-Parametric Approach, *30th AAAI Conference on Artificial Intelligence (AAAI)*, 2016.
- * Phillip Odom, Tushar Khot, Reid Porter, and **Sriraam Natarajan**, Knowledge-Based Probabilistic Logic Learning, *Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI)*, 2015.
- Jeremy Weiss, **Sriraam Natarajan**, and David Page, Learning To Reject Sequential Importance Steps for Continuous-Time Bayesian Networks, *Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI)*, 2015.
- * Raksha Kumaraswamy, Phillip Odom, Kristian Kersting, David Leake and **Sriraam Natarajan**, Transfer Learning Across Relational and Uncertain Domains: A Language Bias Approach, *International Conference on Data Mining (ICDM)*, 2015.
- * Shuo Yang, Kristian Kersting, Greg Terry, Jeffrey Carr and **Sriraam Natarajan**, Modeling Coronary Artery Calcification Levels From Behavioral Data in a Clinical Study, *Artificial Intelligence in Medicine (AIME)*, 2015.
- * Phillip Odom, Vishal Bangera, Tushar Khot, David Page and **Sriraam Natarajan**, Extracting Adverse Drug Events from Text using Human Advice, *Artificial Intelligence in Medicine (AIME)*, 2015.
- * Shuo Yang, Tushar Khot, Kristian Kersting, Gautam Kunapuli, Kris Hauser and Sriraam Natarajan, Learning from Imbalanced Data in Relational Domains: A Soft Margin Approach, *International Conference on Data Mining (ICDM)*, 2014.

- * Tushar Khot, **Sriraam Natarajan** and Jude Shavlik, Relational One-Class Classification: A Non-Parametric Approach, *Twenty-Eighth AAAI Conference on Artificial Intelligence (AAAI)*, 2014.
- * **Sriraam Natarajan**, Jose Manuel Picado Leiva, Tushar Khot, Kristian Kersting, Christopher Re and Jude Shavlik, Effectively creating weakly labeled training examples via approximate domain knowledge, *International Conference on Inductive Logic Programming, (ILP)*, 2014.
- David Poole, David Buchman, Seyed Mehran Kazemi, Kristian Kersting and **Sriraam Natarajan**, Population Size Extrapolation in Relational Probabilistic Modelling, *Scalable Uncertainty Management (SUM)* 2014.
- Seyed Mehran Kazemi, David Buchman, Kristian Kerstin, **Sriraam Natarajan** and David Poole, Relational Logistic Regression, *International Conference on Principles of Knowledge Representation and Reasoning (KR)*, 2014.
- * Chris Magnano, Ameet Soni, **Sriraam Natarajan** and Gautam Kunapuli, A graphical model approach to ATLAS-free mining of MRI images, *SIAM International Conference on Data Mining*, 2014.
- * Gautam Kunapuli, Phillip Odom, Jude Shavlik, and **Sriraam Natarajan**, Guiding Autonomous Agents to Better Behaviors through Human Advice, *IEEE International Conference on Data Mining (ICDM)* 2013.
- * Shuo Yang and **Sriraam Natarajan**, Knowledge Intensive Learning: Combining Qualitative Constraints with Causal Independence for Parameter Learning in Probabilistic Models, *European Conference on Machine Learning, (ECMLPKDD)* 2013.
- * Baidya Saha, Gautam Kunapuli, Nilanjan Ray, Joseph Maldjian and **Sriraam Natarajan**, AR-Boost: Reducing Overfitting by a Robust Data-Driven Regularization Strategy, *European Conference on Machine Learning, (ECMLPKDD)* 2013.
- * **Sriraam Natarajan**, Phillip Odom, Saket Joshi, Tushar Khot, Kristian Kersting and Prasad Tadepalli, Accelerating Imitation Learning in Relational Domains via Transfer by Initialization, *International Conference on Inductive Logic Programming (ILP)*, 2013.
- * Tushar Khot, **Sriraam Natarajan**, Kristian Kersting and Jude Shavlik, Learning Relational Probabilistic Models from Partially Observed Data - Opening the Closed-World Assumption, *International Conference on Inductive Logic Programming (ILP)*, 2013.
- * **Sriraam Natarajan**, Kristian Kersting, Edward Ip, David Jacobs and Jeff Carr, Early Prediction of Coronary Artery Calcification Levels Using Machine Learning, *IAAI* 2013.
- * Jeremy Weiss, **Sriraam Natarajan** and David Page, Multiplicative Forests for Continuous-Time Processes, *Neural Information Processing Systems (NIPS)* 2012.
- Babak Ahmadi, Kristian Kersting and **Sriraam Natarajan**, Lifted Online Training of Relational Models with Stochastic Gradient Methods, *ECML-PKDD* 2012.
- * Jeremy Weiss, **Sriraam Natarajan**, Peggy Peissig, Catherine McCarty and David Page, Statistical Relational Learning to Predict Primary Myocardial Infarction from Electronic Health Records, *AAAI conference on Innovative Applications in AI (IAAI)* 2012.
- David Page, Vitor Santos Costa, **Sriraam Natarajan**, Peggy Peissig, Aubrey Barnard, Michael Caldwell, Identifying Adverse Drug Events from Multi-Relational Healthcare Data, *Twenty-Sixth Conference on Artificial Intelligence (AAAI)* 2012.
- * **Sriraam Natarajan**, Saket Joshi, Baidya Saha, Adam Edwards, Tushar Khot, Elizabeth Moody, Kristian Kersting, Christopher Whitlow and Joseph Maldjian, A Machine Learning Pipeline for Three-way Classification of Alzheimer Patients from Structural Magnetic Resonance Images of the Brain, *IEEE Conference on Machine Learning and Applications (ICMLA)* 2012.

- * Baidya Saha, **Sriraam Natarajan**, Gopi Kota, Christopher T. Whitlow, Donald Bowden, Jasmin Divers, Barry I. Freedman and Joseph A. Maldjian, A Novel Hierarchical Level Set with AR-Boost for White Matter Lesion Segmentation in Diabetes, *IEEE Conference on Machine Learning and Applications (ICMLA)* 2012.
- * Tushar Khot, **Sriraam Natarajan**, Kristian Kersting, and Jude Shavlik, Learning Markov Logic Networks via Functional Gradient Boosting, *International Conference in Data Mining (ICDM)* 2011.
- * **Sriraam Natarajan**, Saket Joshi, Prasad Tadepalli, Kristian Kersting, and Jude Shavlik, Imitation Learning in Relational Domains: A Functional-Gradient Boosting Approach, *International Joint Conference in AI (IJCAI)* 2011.
- Sabareesh Subramaniam, **Sriraam Natarajan**, and Alessandro Senes, A Machine Learning based Approach to Improve Protein Sidechain Optimization, *ACM Conference on Bioinformatics, Computational Biology and Biomedicine (ACM BCB)* 2011.
- * **Sriraam Natarajan**, Tushar Khot, Daniel Lowd, Kristian Kersting, Prasad Tadepalli and Jude Shavlik, Exploiting Causal Independence in Markov Logic Networks: Combining Undirected and Directed Models, *European Conference on Machine Learning (ECML)* 2010.
- * **Sriraam Natarajan**, Tushar Khot, Kristian Kersting, Bernd Gutmann and Jude Shavlik, Boosting Relational Dependency Networks, *International Conference on Inductive Logic Programming (ILP)* 2010.
- * **Sriraam Natarajan**, Gautam Kunapuli, Kshitij Judah, Prasad Tadepalli, Kristian Kersting and Jude Shavlik, Multi Agent Inverse Reinforcement Learning, *IEEE Conference on Machine Learning and Applications (ICMLA)* 2010.
- Trevor Walker, Gautam Kunapuli, **Sriraam Natarajan**, Jude Shavlik and David Page, Automating the ILP Setup Task: Converting User Advice about Specific Examples into General Background Knowledge, *International Conference on Inductive Logic Programming (ILP)* 2010.
- Jude Shavlik, **Sriraam Natarajan**, Speeding up Inference in Markov Logic Networks By Preprocessing to Reduce the Size of the Resulting Grounded Network, *International Joint Conference in AI (IJCAI)* 2009.
- Kristian Kersting, Babak Ahmadi, **Sriraam Natarajan**, Counting Lifted Belief Propagation, *International Conference on Uncertainty in AI (UAI)* 2009.
- * **Sriraam Natarajan**, Prasad Tadepalli, Gautam Kunapuli, Jude Shavlik, Learning Parameters for Relational Probabilistic Models with Noisy-Or Combining Rule, *IEEE Conference on Machine Learning and Applications (ICML-A)* 2009.
- * **Sriraam Natarajan**, Gautam Kunapuli, Ciaran O' Reilly, Rich Maclin, Trevor Walker, David Page, and Jude Shavlik, ILP for Bootstrapped Learning: A Layered Approach to Automating the ILP Setup Problem, *International Conference on Inductive Logic Programming (ILP)* 2009.
- * **Sriraam Natarajan**, Hung H.Bui, Prasad Tadepalli, Kristian Kersting, Weng-Keen Wong, Logical Hierarchical Hidden Markov Models for User Activity Recognition, *International Conference on Inductive Logic Programming (ILP)* 2008.
- * **Sriraam Natarajan**, Prasad Tadepalli and Alan Fern, A Relational Hierarchical Model of Decision-Theoretic Assistance, *International Conference on Inductive Logic Programming, (ILP)* 2007.
- * Alan Fern, **Sriraam Natarajan**, Kshitij Judah and Prasad Tadepalli, A Decision theoretic model of Assistance, *International Joint Conference in Artificial Intelligence (IJCAI)* 2007.
- * **Sriraam Natarajan**, Prasad Tadepalli, Eric Altendorf, Thomas G. Dietterich, Alan Fern and Angelo Restifcar, Learning First-Order Probabilistic Models with Combining Rules, *22nd International Conference on Machine Learning (ICML)* 2005.
- * **Sriraam Natarajan** and Prasad Tadepalli, Dynamic Preferences in Multi-Criteria Reinforcement Learning, *22nd International Conference on Machine Learning (ICML)* 2005.

Workshop Papers

- Das, M., Ramanan, N., Doppa, J.R., and **Natarajan, S.**, One-Shot Induction of Generalized Logical Concepts via Human Guidance, Workshop on Statistical Relational AI (StarAI) 2020
- Kaur, N., Kunapuli, G., and **Natarajan, S.**, Non-Parametric Learning of Lifted Restricted Boltzmann Machines, Workshop on Statistical Relational AI (StarAI) 2020
- Dhami, D.S., Yen, S., Kunapuli, G., and **Natarajan, S.**, Non-Parametric Learning of Gaifman Models, Workshop on Statistical Relational AI (StarAI) 2020
- Dhami, D.S., Kunapuli, G., Page, D., and **Natarajan, S.**, Predicting Drug-Drug Interactions from Molecular Structure Images, AAAI Fall symposium - AI for Social Good 2019
- Dhami, D.S., Kunapuli, G., and **Natarajan, S.**, Efficient Learning of Relational Gaifman Models using Probabilistic Logic, Workshop on Probabilistic Logic Programming (PLP) 2019
- * Nandini Ramanan and **Sriraam Natarajan**, Work-In-Progress: Ensemble Causal Learning for Modeling Post-Partum Depression, AAAI Spring Symposium on Beyond Curve Fitting Causation, Counterfactuals and Imagination-Based AI 2019.
- * Nandini Ramanan, Gautam Kunapuli, Tushar Khot, Bahare Fatemi, Seyed Mehran Kazemi, David Poole, Kristian Kersting and **Sriraam Natarajan**, Structure Learning for Relational Logistic Regression: An Ensemble Approach, Hybrid reasoning and Learning (KR) 2018.
- * Devendra Singh Dhami, David Leake and **Sriraam Natarajan**, Knowledge-based Morphological Classification of Galaxies from Vision Features, Knowledge-Based Techniques for Problem Solving and Reasoning (AAAI) 2017.
- * Mayukh Das, Md. Rakibul Islam, Jana Doppa, Dan Roth and **Sriraam Natarajan**, Active Preference Elicitation for Planning, Human-Machine Collaborative Learning (AAAI) 2017.
- * Phillip Odom and **Sriraam Natarajan**, Active Advice Seeking for Inverse Reinforcement Learning, *AAAI Student Abstract and Poster Program*, 2015.
- * Phillip Odom, Tushar Khot, and **Sriraam Natarajan**, Learning Probabilistic Logic Models with Human Advice, *AAAI Spring Symposium on Knowledge Representation and Reasoning*, 2015.
- * Shrutika Poyrekar, **Sriraam Natarajan** and Kristian Kersting, A Deeper Empirical Analysis of CBP algorithm: Grounding is the Bottleneck, *International Workshop on Statistical Relational AI (StarAI)*, 2014.
- * **Sriraam Natarajan**, Phillip Odom, Saket Joshi, Tushar Khot, Kristian Kersting and Prasad Tadepalli. Accelerating Imitation Learning in Relational Domains via Transfer by Initialization, *International Workshop on Statistical Relational AI*, 2012.
- * Richard G. Freedman, Rodrigo de Salvo Braz, Hung Bui and **Sriraam Natarajan**. Initial Empirical Evaluation of Anytime Lifted Belief Propagation, *International Workshop on Statistical Relational AI*, 2012.
- * Tushar Khot, Siddharth Srivastava, **Sriraam Natarajan** and Jude Shavlik. Learning Relational Structure for Temporal Relation Extraction, *International Workshop on Statistical Relational AI*, 2012.
- Pradyot Korupolu V N, S S Manimaran, Balaraman Ravindran and **Sriraam Natarajan**. Integrating Human Instructions and Reinforcement Learners : An SRL Approach, *International Workshop on Statistical Relational AI*, 2012.
- David Poole, David Buchman, **Sriraam Natarajan** and Kristian Kersting. Aggregation and Population Growth: The Relational Logistic Regression and Markov Logic Cases, *International Workshop on Statistical Relational AI*, 2012.
- Babak Ahmadi, Kristian Kersting and **Sriraam Natarajan**. Lifted Parameter Learning in Relational Models. *ICML Workshop on Statistical Relational Learning (SRL)* 2012

- * Tushar Khot, **Sriraam Natarajan**, Kristian Kersting and Jude Shavlik. Structure Learning with Hidden Data in Relational Domains. *ICML Workshop on Statistical Relational Learning (SRL)* 2012.
- * **Sriraam Natarajan**, Kristian Kersting, Saket Joshi, Santiago Saldana, Edward Ip, David Jacobs and Jeffery Carr. Early Prediction of Coronary Artery Calcification Levels Using Statistical Relational Learning. *ICML Workshop on Machine Learning for Clinical Data Analysis* 2012.
- * **Sriraam Natarajan**, Saket Joshi, Prasad Tadepalli, Kristian Kersting, and Jude Shavlik, Imitation Learning in Relational Domains Using Functional Gradient Boosting, *The Learning Workshop* 2011.
- * **Sriraam Natarajan**, Gautam Kunapuli, David Page, Trevor Walker, Richard Maclin, Ciaran O'Reilly, Jude Shavlik, Learning from Human Teachers: Issues and Challenges for ILP in Bootstrap Learning, *AAMAS Workshop on Agents Learning Interactively from Human Teachers* 2010.
- * **Sriraam Natarajan**, Gautam Kunapuli, Kshitij Judah, Prasad Tadepalli, Kristian Kersting and Jude Shavlik, Multi-Agent Inverse Reinforcement Learning, *The Learning Workshop* 2010.
- * **Sriraam Natarajan**, Prasad Tadepalli, Gautam Kunapuli and Jude Shavlik, Knowledge Intensive Learning: Directed vs. Undirected SRL Models, *International Workshop in SRL* 2009.
- Rodrigo De Salvo Braz, **Sriraam Natarajan**, Hung Bui, Jude Shavlik, and Stuart Russell, Anytime Lifted Belief Propagation, *International Workshop in SRL* 2009.
- * **Sriraam Natarajan**, Irene Ong, David Haight, David Page, Vitor Santos Costa, Modeling Temporal Biomedical Data by SRL, *ECML workshop on Bio-Medical Applications using SRL* 2008.
- * **Sriraam Natarajan**, Kshitij Judah, Prasad Tadepalli and Alan Fern, A Decision-Theoretic Model of Assistance - Evaluation, Extensions and Open Problems, *AAAI Spring Symposium on Interaction Challenges for Intelligent Assistants* 2007.
- * **Sriraam Natarajan**, Prasad Tadepalli and Alan Fern, Exploiting prior knowledge in Intelligent Assistants - Combining relational models with hierarchies, *Proceedings of the Dagstuhl Seminar on Probabilistic, Logical and Relational Learning - A Further Synthesis* 2007.
- * **Sriraam Natarajan** and Eric Altendorf, First Order Conditional Influence Language, *Technical Report CS05-30-01* September 2005.
- Alan Fern, **Sriraam Natarajan**, Kshitij Judah and Prasad Tadepalli, A Decision theoretic model of Assistance, *Modeling Others from Observations workshop in AAAI* 2006.
- * **Sriraam Natarajan**, Weng-Keen Wong and Prasad Tadepalli, Structure Refinement in First Order Conditional Influence Language, *Open Problems in Statistical Relational Learning, ICML* 2006.
- Neville Mehta, **Sriraam Natarajan**, Prasad Tadepalli and Alan Fern, Transfer in Variable Reward Hierarchical Reinforcement Learning, *Inductive Transfer NIPS workshop* 2005.
- Lisa Torrey, Jude Shavlik, **Sriraam Natarajan**, Pavan Kuppilli and Trevor Walker, Transfer in Reinforcement Learning via Markov Logic Networks, *AAAI workshop on Transfer Learning for Complex Tasks* 2008.
- Hung Bui, Federico Cesari, Daniel Elenius, David Morley, **Sriraam Natarajan**, Shahin Saadati, Eric Yeh, and Neil Yorke-Smith, A Context-Aware Personal Desktop Assistant, *Demonstrations track of Autonomous Agent and MultiAgent Systems* 2008.

Service

- Area Chair, IJCAI 2021
- Area Chair, AAAI 2021
- Program co-chair, SIAM International Conference on Data Mining (SDM) 2020
- Program co-chair, ACM CODS-COMAD 2020

- Speciality Chief Editor, Frontiers in Big Data, Machine Learning and AI, 2018 - Present
- Electronic Publishing Editor, Journal Of AI Research, 2015 - Present
- Editorial Board Member, JAIR, MLJ, Information and DMKD journals
- Co-chair, AAAI Student and Outreach Activities, AAAI 2020, 2019, 2017, 2016
- Co-chair, AAAI student abstract and poster, AAAI 2015, 2014
- Panelist, NSF panels (at least one every year from 2011) and reviewer of ARO, AFOSR, NSERC Canada and European funding agencies
- Area chair, AISTATS 2015
- Area chair, ECML-PKDD 2015
- Senior Program Committee Member IJCAI '13, '15, '16, '17, '18, '19, '20
- Senior Program Committee Member AAAI '19, '20
- Co-organizer, International Workshop on Statistical Relational Learning, ICML '12
- Co-organizer, International Workshop on Statistical Relational AI, AAAI '14, AAAI '13, UAI '12, AAAI '10
- Co-organizer, First and Second International Workshop on Collective Learning and Inference in Structured Domains, ECML PKDD '12 ECML PKDD '11
- Co-organizer, tutorial on Lifted Probabilistic Inference, IJCAI '11
- Program Committee Member, ICML '18', '19, '20, '16, '17, '15, '13, '12, '11, '10, '09, '08, IJCAI '17, '11, '09, AAAI '18, '16, '17 '15, '14, '13, '12, '11, '10, '08, UAI '17, '15, '14, KDD '15, ICDM '14, ECML '17, '16, '15, '14, '13, '12, ILP '19', '18, '17, '16', '15, '14, '13, CIKM '17 ACML '12
- Reviewer for Machine Learning Journal, Journal of Machine Learning Research, Artificial Intelligence Journal, Journal of AI Research, ACM Transactions, Journal of Biomedical Informatics, Data Mining and Knowledge Discovery, Knowledge and Adaptive Systems Journal
- Invited Reviewer for American Mathematical Society

Invited Talks

- Keynote Speaker, Human Allied AI for Health Care, First Hessian conference on AI-ready health care, 2020.
- Keynote Speaker, Logical Learning + Statistical Learning: Lessons Learned, PLP workshop, ICLP 2020.
- Keynote speaker, Human-Allied Probabilistic Learning, KiML workshop, KDD, August 2020.
- Invited Speaker, Human-Allied AI, Robert Bosch Data Science and AI Summit, June 2020.
- Distinguished Speaker, Human-Allied AI, University of South Carolina, February 2020.
- Invited Speaker, Neuro-symbolic learning, Indian Institute of Technology, Madras, Chennai, India, Dec 2019.
- Invited Speaker, Human-in-the-loop Learning, Dagstuhl Seminar, September 2019.
- Invited Speaker, AFOSR Planning Meeting, July 2019.
- Keynote Speaker, Human Allied AI, AI for Social Good, San Francisco, June 2019.
- Keynote speaker at CCSC Conference, The University of Texas at Dallas, April 2019.

- Human Allied Artificial Intelligence, Perot Museum of Nature and Science, Dallas, Texas, April 2019.
- Efficient Human-in-the-loop Statistical Relational Learning, Oregon State University, Feb 2019.
- Human Allied Artificial Intelligence, CoDS-COMAD, Kolkata, India, Jan 2019.
- Statistical Relational AI, Indian Institute of Technology, Madras, Chennai, India, Nov 2018.
- Efficient Human-in-the-loop Statistical Relational Learning, Boeing, Birmingham, AL, Aug 2018.
- Human Allied Artificial Intelligence, Washington State University, Pullman, WA, April 2018.
- Statistical Relational Artificial Intelligence, United States Army Research Laboratory, Oct 2018.
- Human Aware Artificial Intelligence, SMILE, saigerhoeh Germany, March 2018.
- Human Allied Statistical Relational AI, ACAI 2018 Summer School on Statistical Relational Artificial Intelligence, Ferrara, Italy, Aug 2018.
- Human Aware Artificial Intelligence, US-Serbia & West Balkan Data Science Workshop, Serbia, Aug 2018.
- Statistical Relational Artificial Intelligence, This Week in Machine Learning & Artificial Intelligence by Sam Charrington, Feb 2018.
- Human Aware Statistical Relational AI, International Workshop on Statistical Relational AI, Stockholm, Serbia, Jul 2018.
- Efficient Human-in-the-loop Statistical Relational Learning, University of British Columbia, British Columbia, Canada, Oct 2018.
- Human Aware Artificial Intelligence, University of Texas at Austin, Austin, Texas, Oct 2018.
- Statistical Relational Artificial Intelligence, CRANE, Indiana, May 2017.
- Statistical Relational Artificial Intelligence: Logic, Probability and Computation, AAAI, 2017.
- Human Aware Artificial Intelligence, Arizona State University, Arizona, Feb 2017.
- Efficient Human-in-the-loop Statistical Relational Learning, University of Oregon, Oregon, Nov 2017.
- Statistical Relational Artificial Intelligence, Portland State University, Oregon, Feb 2017.
- Human Allied Artificial Intelligence, Electrical Engineering and Computer Science - Oregon State University, Oregon, Oct 2017.
- Human Allied Artificial Intelligence, the University of Texas at Dallas, Dallas, Oct 2017.
- Statistical Relational Artificial Intelligence: Logic, Probability and Computation, NeurIPS 2017.
- Efficient Human-in-the-loop Statistical Relational Learning, Oregon State University, Nov 2016.
- Statistical Relational Artificial Intelligence, Stanford University, Computer science, CA, Aug 2016.
- Exploiting Expert Knowledge When Learning Probabilistic Models from Relational Databases, IU, SICE, Sep 2016.
- Efficient Human-in-the-loop Statistical Relational Learning, University of Notre Dame, April 2015.
- Efficient Human-in-the-loop Statistical Relational Learning, University of Pittsburgh, April 2015.
- Efficient Human-in-the-loop Statistical Relational Learning, Washington State University, March 2015.
- Efficient Human-in-the-loop Statistical Relational Learning, Carnegie Mellon University, February 2015.
- Effective Learning of Probabilistic Models from Structured Data, Wake Forest University, November 2014

- Effective Learning of Probabilistic Models from Structured Data, Swarthmore College, October 2014.
- Effective Learning of Probabilistic Models from Structured Data, University of Minnesota-Duluth, September 2014.
- Human-in-the-loop Relational Learners, Los Alamos National Lab, Los Alamos, March 2014.
- Relational Learning for Personalized Medicine, University of Nebraska, Omaha, February 2014.
- Effective Statistical Relational Learning, University of Rochester, March 2013.
- Effective Statistical Relational Learning, Dayton University, March 2013.
- Effective Statistical Relational Learning, Northeastern University, March 2013.
- Relational Learning for Personalized Medicine, University of Wisconsin-Madison, March 2013.
- Relational Learning for Personalized Medicine, Wayne State University, February 2013.
- Effective Statistical Relational Learning, University of North Carolina-Charlotte, March 2013.
- SRL for health applications, University of California, San Diego, August 2012.
- Relational Learning Methods aid in Cardiovascular and Alzheimer's detection, University of Washington-Seattle, August 2012.
- Can Statistical Relational Learning Help in Sustainable Health Care? Arizona State University, May 2012.
- Can Statistical Relational Learning Help in Sustainable Health? Department of CS, University of North Carolina-Charlotte, May 2012.
- Clinical Applications of Machine Learning - NeuroRadiology in Jeopardy, Invited Speaker, American Society of Functional Neuroradiology, March 2012.
- Can Statistical Relational Learning Help in Sustainable Health? AIC Seminar, SRI International, February 2012.
- Practical Statistical Relational Learning, CS Department colloquium, Indian Institute of Technology, Madras March 2011.
- Practical Statistical Relational Learning, Department of CS, University of Houston, May 2011.
- Identifying Adverse Drug Events using Relational Learning, Wake Forest University School of Medicine, 2010.
- Identifying Adverse Drug Events using Relational Learning, CS Department colloquium, Oregon State University, 2010.
- Efficient Statistical Relational Learning, CS Department colloquium, Indian Institute of Technology, Bombay 2010.
- Effective Statistical Relational Learning, CS Department colloquium, Indian Institute of Technology, Madras 2010.
- Effective Statistical Relational Learning, CS Department colloquium, Portland State University 2010.
- Efficient Statistical Relational Learning, CS Department colloquium, University of Arizona 2010.
- Efficient Decision-Theoretic Assistance Through Relational Hierarchical Models, CS Department colloquium, University of Oregon, December 2009.
- Lifted Inference in Relational Probabilistic Models, Invited talk, CS Department, University of Minnesota, Duluth, October 2009.

- Efficient Inference in Probabilistic Logic Models, Invited CS Departmental Colloquium, Oregon State University, August 2009.
- A Relational Hierarchical Model Of Decision-Theoretic Assistance, Fraunhofer IAIS, Germany, September 2008.
- Intelligent Assistants - A Decision-Theoretic Model, AIC seminar, SRI International, June 2007.
- Exploiting Prior Knowledge in Intelligent Assistants - Combining Relational Models with Hierarchies, Dagstuhl Seminar on Probabilistic, Logical and Relational Learning - A Further Synthesis, Germany, April 2007.