Mausam

Professor, Indian Institute of Technology Delhi
Affiliate Professor, University of Washington, Seattle

Email: *mausam@cse.iitd.ac.in*, *mausam@cs.washington.edu*
Website: *http://www.cse.iitd.ac.in/~mausam*

Research Interests

[Current]: Intelligent Information Systems, Neuro-Symbolic Machine Learning, Web Information Extraction, Question Answering, Dialog Systems, Markov Decision Processes, Sequential Decision Making under Uncertainty, AI Applications to Radiology, AI Applications to Robotics, NLP Applications to Material Science.
[Past]: Automated Planning, Panlingual Machine Translation, NLP over Social Media, Multi-Document Summarization, Probabilistic Reasoning, First Order Probabilistic Models, Heuristic Search, Temporal Reasoning, AI Applications to Crowd-Sourcing.

Education

2004 – 2007	**Ph.D.** Advisor : Daniel S. Weld
	Dissertation: *Stochastic Planning with Concurrent, Durative Actions*
	Computer Science and Engineering. University of Washington, Seattle.
2001 – 2004	**Master of Science**. Advisor : Daniel S. Weld
	M.S. Thesis: *Solving Concurrent Markov Decision Processes*
	Computer Science and Engineering. University of Washington, Seattle.
1997 – 2001	**Bachelor of Technology**. (G.P.A.: 9.45/10, Dept. Rank 1)
	Computer Science and Engineering. Indian Institute of Technology, Delhi.

Employment

Jul'21 – present	**Affiliate Professor**, University of Washington, Seattle
Nov'19 – present	**Professor**, Indian Institute of Technology, Delhi
Sep'20 – Sep'23	**Head**, Yardi School of Artificial Intelligence, Indian Institute of Technology, Delhi
May'17 – Jun'21	**Affiliate Associate Professor**, University of Washington, Seattle
Jul'14 – Nov'19	**Associate Professor**, Indian Institute of Technology, Delhi
Oct'13 – Jul'14	**Visiting Faculty**, Indian Institute of Technology, Delhi
Oct'13 – May'17	**Affiliate Assistant Professor**, University of Washington, Seattle
Oct'07 – Sep'13	**Research Assistant Professor**, Turing Center, University of Washington, Seattle
Aug'07 – Sep'07	**Post-Doctoral Researcher**, University of Washington, Seattle
Jun'02 – Aug'07	**Research Assistant**, University of Washington, Seattle
Oct'04 – Dec'04	**Intern**, NASA Ames Research Center, Mountain View, CA
Oct'01 – Jun'02	**Teaching Assistant**, University of Washington, Seattle
Jun'00 – Aug'00	**Intern**, Max Planck Institut fur Informatik, Saarbrucken, Germany

Ph.D. and Post-Doctoral Supervision

Jul'23 – present	**Co-Advisor, T. Karthikeyan**
	Multimodal AI for Educational Dialog Systems
Jan'22 – present	**Co-Advisor, Aayush Kumar Tyagi**

Celiac Disease Prediction from Histopathological Biopsies

Feb'21 – present **Advisor, Vishal Vivek Saley**
[Comprehensive] *Task-Oriented Dialog Systems for Automated Differential Diagnosis*
Goal-Oriented Dialog with a Dynamic KB

Jul'19 – present **Co-Advisor, Vipul Rathore**
[Comprehensive] *Multilingual Distantly Supervised Relation Extraction with Focus on Indic Languages*

Jul'17 – present **Co-Advisor, Yatin Nandwani**
[Ph.D. Synopsis] *Deep Learning with Explicit or Implicit Constraints in the Output Space.*
[Comprehensive] *Augmenting Deep Learning with Domain Knowledge*

Dec'15 – present **Advisor, Dinesh Raghu**
[Ph.D. Synopsis] *Generalisation of End-to-End Task-Oriented Dialog Systems to Unseen Knowledge.*
[Comprehensive] *End to End Task Oriented Dialog Modeling with Knowledge Base in the Loop*

Jul'17 – Aug'23 **Co-Advisor, Sai Keshav Kolluru**
[Ph.D. Dissertation] *Neural Methods for Monolingual and Multilingual Open Information Extraction.*
[Comprehensive] *Taming the Web: Neural OpenIE and its Applications*

Apr'22 – Jun'23 **Post-doctoral Co-Mentor, Navdeep Kaur**
Neuro-Symbolic Approaches for Knowledge Graph Completion.

Nov'13 – Oct'22 **Co-Advisor, Prachi Jain**
[Ph.D. Dissertation] *Language, Structure, Time Aware Knowledge Base Completion.*
[Comprehensive] *Open Inference Rule Learning.*

May'13 – Nov'21 **Co-Advisor, Danish Contractor**
[Ph.D. Dissertation] *QA for Tourism – Answering Recommendation & Comparison Questions.*
[Comprehensive] *Unstructured Query Understanding and Answering for Tourism*

Jul'14 – Jul'19 **Co-Advisor, Ankit Anand**
[Ph.D. Dissertation] *Symmetry Aware Inference and Decision Making in Probabilistic Models*
[Comprehensive] *Lifting Techniques for Sequential Decision Making under Uncertainty*

Apr'13 – Aug'18 **Co-advisor, Jonathan Bragg**
[Ph.D. Dissertation] *Self-Improving Crowdsourcing: Near-Effortless Design of Adaptive Distributed Work.*
[Generals] *Self-improving Crowdsourcing*
Decision-theoretic Task Routing for Crowdsourcing
[Master's Thesis] *Match-making for the Crowd: Asking More Informative Questions*

Oct'11 – Aug'17 **Ph.D. Co-advisor, Christopher Lin**
[Ph.D. Dissertation] *The Intelligent Management of Crowd-Powered Machine Learning.*
Artificial Intelligence for Crowdsourcing.
[Generals] *Reactive Learning*
[Master's Thesis] *Two Decision-Theoretic Solutions for Crowdsourcing*

Sep'08 – Sep'14 **Ph.D. Advisor, Janara Christensen.**
[Ph.D. Dissertation] *Towards Large Scale Summarization.*
[Generals] *Towards Large Scale Summarization.*
[Master's Thesis] *Semantic Role Labeling for Open Information Extraction.*

May'11 – Sep'13 **Post-doctoral Co-Mentor, Niranjan Balasubramanian**
Probabilistic Model of Relations in Text.

Mar'09 – Aug'13 **Ph.D. Co-advisor, Alan Ritter**
[Ph.D. Dissertation] *Extracting Knowledge from Twitter and the Web.*
[Generals] *Open Domain Event Extraction in Social Media.*
Natural Language Processing over Twitter.
LDA based Model for Selectional Preferences.

Oct'07 – Jun'13 **Ph.D. Co-advisor, Andrey Kolobov**
[Ph.D. Dissertation] *Scalable Methods and Expressive Models for Planning under Uncertainty.*
[Ph.D. Dissertation awarded an honorable mention for ICAPS 2014 Best Dissertation Award]
[Generals] *Solving Bigger and Better MDPs.*

[Master's Thesis] *MDP Algorithms Based on Determinized Domains.*

Nov'09 – Oct'12 **Ph.D. Co-advisor, Thomas Lin**
[Ph.D. Dissertation] *Leveraging Knowledge Bases in Web Text Processing*
[Generals] *Leveraging Knowledge Bases in Web Text Processing.*
Learning Meta-properties of Natural Language Relations.

Jun'07 – Jun'11 **Ph.D. Co-advisor, Peng Dai**
[Ph.D. Dissertation] *Decision Making under Uncertainty: Scalability and Applications.*
Ph.D. Dissertation awarded an honorable mention for ICAPS 2012 Best Dissertation Award
[Generals] *Decision-Theoretic Control of Crowdsourced Workflows.*
[Master's Thesis] *External Memory Algorithms for MDPs.*

Undergraduate and Postgraduate Project Supervision

Jul'23 – present **Co-Advisor, Aniruddha Deb**
Large Language Models for NLP over Low-resource Languages

Jul'23 – present **Co-Advisor, Chinmay Mittal**
Large Language Models for NP-Complete Reasoning Problems

Jul'23 – present **Advisor, Goonjan Saha**
Medical Dialog Systems

Jul'23 – present **Co-Advisor, Dhruvil Sheth**
Information Extraction from Text in Material Science Publications

Jul'23 – present **Co-Advisor, Himanshu Wadhwa**
Multimodal AI for Educational Dialog Systems

Jan'23 – present **Advisor, Pranjal Aggarwal**
Adaptive Consistency for Reasoning with Large Language Models

Jan'23 – present **Co-Advisor, Vaibhav Mishra**
Automated Grading of Duodenum Biopsies

Jan'23 – present **Co-Advisor, Riya Sawhney**
Knowledge Graph Question Answering & Large Language Models

Jan'22 – present **Co-Advisor, Kausik Hira**
Information Extraction from Material Science Literature

Aug'21 – present **Co-Advisor, Prayushi Faldu**
Answerability of Knowledge Base Questions
Incorporating Human Policies in Reinforcement Learning

Sep'20 – Nov'23 **Co-Advisor, Jigyasa Gupta**
[Master's Thesis] *Interleaving Neural Predicate Inference with Classical Planning for Generalization in Robot Instru*

Jan'22 – Jul'23 **Advisor, Aditya Mohan Mishra**
[Master's Thesis] *Multimodal Persona Based Generation of Comic Dialogs*

Jul'22 – Jun'23 **Co-Advisor, Kanav Pruthi**
[B.Tech. Thesis] *Conversational Recommendation of Entities using Constrained Generation*

Jul'22 – Jun'23 **Advisor, Ishaan Singh**
[B.Tech. Thesis] *Neuro-Symbolic Temporal Knowledge Graph Completion*

May'22 – Jun'23 **Co-Advisor, Ananjan Nandi**
[B.Tech. Thesis] *Augmentation and Ensembling Techniques for Knowledge Graph Completion*

Jul'22 – May'23 **Co-Advisor, Apar Ahuja**
[B.Tech. Thesis] *Size Invariance in Neural-ILP architectures*

Jul'22 – May'23 **Co-Advisor, Mustafa Chasmai**
[B.Tech. Thesis] *Integrated Symbolic Sub-Goal Prediction and Action Inference for Generalizable Robot Instruction*

Jul'22 – May'23 **Co-Advisor, Devanshi Khatsuria**
[B.Tech. Thesis] *Information Extraction from Tables in Materials Science Articles*

Jan'22 – Jan'23	**Advisor, Harsh Agrawal**
	Multimodal Persona Based Generation of Comic Dialogs
Aug'21 – Jun'23	**Co-Advisor, Chirag Mohapatra**
	[Master's Thesis] *Incorporating Expert Insights for Multi-Class Cell Detection and Counting*
	Thesis awarded IITD-CSE Award for Best Hardcore Experimental Project.
Feb'21 – Jun'23	**Co-Advisor, Daman Arora**
	[Master's Thesis] *Learning Generalized Neural Policies for Relational Markov Decision Processes*
Aug'21 – Jun'22	**Co-Advisor, Anand Brahmbhatt**
	[B.Tech. Thesis] *Towards a Fair and Calibrated Machine Learning Model*
Aug'21 – Jun'22	**Co-Advisor, Tuhin Girinath**
	[B.Tech. Thesis] *Learning Interpretable Symbolic Representations by Using Human Policies*
Aug'21 – Jun'22	**Advisor, Suraj Joshi**
	Structural Constraints and Natural Language Inference for End-to-End Flowchart Grounded Dialog Response Gene
Aug'21 – Jun'22	**Co-Advisor, Shubham Mittal**
	[B.Tech. Thesis] *Multilingual Open Knowledge Base Completion*
Aug'21 – Jun'22	**Co-Advisor, Rishabh Ranjan**
	[B.Tech. Thesis] *A Solver-free Framework for Scalable Learning in Neural ILP Architectures*
	Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE B.Tech. Project
Feb'21 – Jun'22	**Co-Advisor, Tanishq Gupta**
	[Master's Thesis] *Natural Language Processing enabled Composition Extraction from Materials Tables*
Sep'20 – Jun'22	**Co-Advisor, Shreya Sharma**
	[Master's Thesis] *Neuro-symbolic Approach to Inferring Conjunctive Goal Predicates for Robot Instruction Followin*
	Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE M.Tech. Project
Feb'21 – Jan'22	**Co-Advisor, Kartikeya Badola**
	Distantly Supervised Multilingual Relation Extraction
Sep'20 – Jul'21	**Co-Advisor, Pratheek Rebello**
	[B.Tech. Thesis] *Unification of Weak Supervision*
Sep'20 – Jul'21	**Co-Advisor, Nisarg Bhatt**
	[B.Tech. Thesis] *Histopathological Image Analysis & Pretext Task Based Semi-supervised Learning*
Sep'20 – Jun'21	**Co-Advisor, Ananye Agarwal**
	[B.Tech. Thesis] *Neuro-Symbolic Models for Joint Perception and Reasoning*
	Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE B.Tech. Project
Sep'20 – Jun'21	**Advisor, Abhyuday Bhartiya**
	[B.Tech. Thesis] *A Multilingual Dataset for Distantly Supervised Relation Extraction*
Sep'20 – Jun'21	**Co-Advisor, Vidit Jain**
	[B.Tech. Thesis] *Neural Models for Domain-Size Invariance in Lifted CSPs*
Sep'20 – Jun'21	**Co-Advisor, Harkanwar Singh**
	[B.Tech. Thesis] *Multilingual Knowledge Graph Completion with Joint Relation and Entity Alignment*
Jul'19 – Jun'21	**Co-Advisor, Mayank Singh Chauhan**
	[Master's Thesis] *Knowledge Graph Completion: Extending to Open Graphs and Improving Trust via Post hoc Expl*
Jul'19 – Jun'21	**Advisor, Atishya Jain**
	[Master's Thesis] *Constraint based Knowledge Base Distillation in End-to-End Task Oriented Dialogs*
Jul'19 – Sep'20	**Co-Advisor, Shreshth Tuli & Rajas Bansal**
	[B.Tech. Thesis] *Human-Guided Acquisition of Commonsense Knowledge for Robot Task Execution: An Imitation L*
Jul'19 – Sep'20	**Co-Advisor, Shashank Goel**
	[B.Tech. Thesis] *Joint Spatio-Textual Reasoning for Answering Tourism Questions*
Jul'19 – Sep'20	**Co-Advisor, Ujjwal Gupta**
	[B.Tech. Thesis] *Open Knowledge Graphs for Improved Coverage in Multi-Document Extractive Summarization*
Jul'19 – Sep'20	**Co-Advisor, Deepanshu Jindal**
	[B.Tech. Thesis] *Learning One-of-Many Solutions for Combinatorial Problems in Structured Output Spaces*
Jul'19 – Sep'20	**Advisor, Pratyush Maini**

[B.Tech. Thesis] *Analyzing the Learnability and Representability of Recurrent Architectures*

Jul'19 – Sep'20 **Co-Advisor, Sushant Rathi**
[B.Tech. Thesis] *Temporal Knowledge Base Completion: New Algorithms and Evaluation Protocols*
**Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE B.Tech. Project.*

Dec'18 – Sep'20 **Co-Advisor, Samarth Aggarwal**
[B.Tech. Thesis] *Neural Architectures and Evaluation Protocols for Open Information Extraction*

Jul'18 – Jun'20 **Advisor, Sankalp Garg**
[B.Tech. Thesis] *Generalized Neural Policies for Relational MDPs*

Jul'18 – Jun'19 **Co-Advisor, Abhishek Pathak**
[B.Tech. Thesis] *Primal-Dual Formulation for Deep Learning with Constraints*

Jul'17 – Jun'19 **Advisor, Nikhil Gupta**
[Master's Thesis] *Knowledge Base Adaptation for Task-Oriented Dialog Systems*
Thesis awarded IITD-CSE Award for Best Hardcore Experimental Project

Jul'18 – Jun'19 **Advisor, Sangnie Bhardwaj**
[B.Tech. Thesis] *Evaluation for Open Information Extraction*

Jul'18 – May'19 **Co-Advisor, Krunal Shah**
[B.Tech. Thesis] *Question-Answering on Recommendation Questions*

Jul'18 – May'19 **Co-Advisor, Mukund Mundhra**
[B.Tech. Thesis] *Neural Typing in Knowledge-Base Inference*

Jul'18 – May'19 **Co-Advisor, Aman Agrawal & Ankesh Gupta**
[B.Tech. Thesis] *Explaining Knowledge-Base Inferences*

Jul'17 – Aug' 18 **Advisor, Akshit Tyagi**
A Memory Network for Open IE-Based Science QA

Jul'17 – Jul'18 **Co-Advisor, Pankaj Kumar**
[B.Tech. Thesis] *Type-Sensitive Knowledge Base Inference Without Explicit Type Supervision*

Jul'17 – Jun'18 **Advisor, Aniket Bajpai**
[B.Tech. Thesis] *Transfer of Deep Reactive Policies for MDP Planning*

Jul'17 – Jun'18 **Co-Advisor, Bhavesh Sethi**
[Master's Thesis] *Medical Image Analysis using Deep Learning*

Jan'17 – Jun'18 **Co-Advisor, Gagan Madan**
[Master's Thesis] *Block Value Symmetries in Probabilistic Graphical Models*
Thesis awarded IITD-CSE Award for Best Hardcore Experimental Project

Jan'17 – Jun'18 **Advisor, Shivanshu Gupta**
[Master's Thesis] *Neural Model for Question Answering on Wikipedia Tables*
A Predictive Model for User Behavior on a Dating Platform

Jul'17 – May'18 **Co-Advisor, Sansiddh Jain**
[B.Tech. Thesis] *Data Driven Legal Reforms*

Jul'17 – May'18 **Co-Advisor, Mayank Sharan**
[B.Tech. Thesis] *Analysis of Indian Legal Dataset*

Jul'17 – May'18 **Co-Advisor, Aditi Partap**
Deep Learning for Recommendation Question Answering

Apr'16 – Dec'17 **Advisor, Swarnadeep Saha**
[Master's Thesis] *Open IE 5.0 – Open Information Extraction from Numerical and Conjunctive Sentences*
**Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE M.Tech. Project.*

Jul'16 – Sep'17 **Co-advisor, Tapas Jain**
[Master's Thesis] *PROST vs. OGA-UCT for Probabilistic Planning*

Dec'15 – Sep'17 **Advisor, Shikhar Murty**
[B.Tech. Thesis] *Inference over Knowledge-bases*

Jul'16 – Aug'17 **Co-advisor, Barun Patra**
[B.Tech. Thesis] *Understanding And Answering Multi-sentence Recommendation Questions on Tourism*
**Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE B.Tech. Project.*

Jul'16 – Aug'17	**Co-advisor, Sachin Beniwal & Gurtej Sohi** *Legal Data Collection and Database Curation*
Dec'15 – Jul'17	**Advisor, Surag Nair** [B.Tech. Thesis] *Periodic Event Extraction from Unstructured Text*
Jul'16 – May'17	**Co-advisor, Haroun Habeeb** [B.Tech. Thesis] *Coarse to Fine Lifted MAP Inference for Computer Vision* **Thesis awarded IITD-CSE Award for Best Hardcore Experimental Project**
Jul'15 – Jul'16	**Co-advisor, Poojan Mehta** *Open Question Parsing*
Jul'15 – Jul'16	**Co-advisor, Ritesh Noothigattu** [B.Tech. Thesis] *On the Go Abstractions in UCT for MDP Planning* **Thesis awarded Suresh Chandra Memorial Award for best IITD-CSE B.Tech. Project.**
Jul'15 – Jul'16	**Co-advisor, Ajay Rathee** [Master's Thesis] *Analysis of Minimal Complexity Machine and Compressive Sensing in Text Analytics*
May'15 – Jul'16	**Advisor, Harinder Pal** [Master's Thesis] *Extraction from Compound Nouns and Numerical Expressions for Open IE*
Jan'15 – Jul'16	**Advisor, Karan Goel & Shreya Rajpal** [Master's & B.Tech. Theses] *A Framework for Cost-Quality-Time Optimization in Crowdsourcing* *Worker Pool Switching for Crowdsourcing*
Jan'14 – Jul'16	**Advisor, Madhur Gupta** [Master's Thesis] *Knowledge Concept Maps* *Student Modeling for e-Education.*
May'14 – Dec'15	**Advisor, Satwant Rana** *Coordinating Conjunction Disambiguation for Extraction*
Jul'14 – Aug'15	**Co-Advisor, Aditya Grover** [B.Tech. Thesis] *A Unified Abstraction Framework for Sequential Decision Making* **Thesis awarded IITD-CSE Award for Best Hardcore Experimental Project**
Jan'15 – Jul'15	**Advisor, Sherjil Ozair** [Master's Thesis] *Domain Adaptation of Word Embeddings*
May'14 – Jul'15	**Co-Advisor, Aman Madaan & Ashish Mathur** [Master's Thesis] *Numerical Relation Extraction with Minimal Supervision*
Jan'14 – Jul'15	**Advisor, Shashank Jain** [B.Tech. Thesis] *Value of Contribution in Micro-Crowdsourcing.*
Jan'14 – Jul'15	**Advisor, Abhishek Yadav** [Master's Thesis] *An Open-IE based Approach for Knowledge-Base Population.*
Jun'13 – Jul'15	**Advisor, Gagan Bansal** [B.Tech. Thesis] *Multi-Paragraph Summarization.* *Diversity in Multi-Document Summarization.*
Jul'14 – May'15	**Advisor, Tushar Gupta** *Dynamic Topic Models for Sentence Clustering.*
Jun'13 – Sep'14	**Advisor, Dan Butler** [Master's Thesis] *Talking about Data: Web Text Can Aid Causal Structure Learning.*
Apr'13 – Dec'13	**Advisor, Melissa Winstanley** [Master's Thesis] *Exploring Sentence Partitioning for Multi-Paragraph Multi-Document Summarization.*
Nov'11 – Jun'13	**Advisor, Benjamin Sidhom** *Student Modeling for Online Education.* *Reactive RTDP for Large Markov Decision Processes.*
Oct'11 – Dec'11	**Advisor, Ryan Oman** *Co-reference for Open Information Extraction.*
Nov'09 – Aug'10	**Co-advisor, Yoav Artzi** *User Feedback in Topic Models for Selectional Preferences.*

Oct'09 – Jun'10   **Co-advisor, Brendan Roof**
                  [Undergraduate Honors Thesis] *Finding and Applying Relational Nouns.*
                  Active Learning for Domain Adaptation of Open IE Tuples.
Jan'09 – Apr'10   **Advisor, Bo Qin**
                  [Master's Thesis] *Readability Classifier for Natural Language Text.*
                  Cross Language Word Sense Disambiguation.
Oct'08 – May'09   **Advisor, Benjamin Lee**
                  [Undergraduate Honors Thesis] *Extending PanDictionary.*
Jan'08 – Jun'08   **Co-advisor, Michael Skinner**
                  [Undergraduate Honors Thesis] *Compiling a PanLingual Dictionary.*
Mar'05 – Jan'06   **Co-advisor, Jiun-Hung Chen**
                  [Master's Thesis] *Naive Bayes POMDPs.*

Supervision of Research Programmers

Aug'22 – Aug'23   **Co-Supervisor, Harshvardhan Srivastava**
                  Constrained Generation for Conversational Recommender Systems
Jul'22 – Jun'23   **Supervisor, Rocktim Jyoti Das**
                  Goal-oriented Dialog with Large Language Models
Sep'20 – Jul'21   **Co-Supervisor, Mohammed Muqeeth**
                  Multilingual Open Information Extraction
Mar'20 – Jul'21   **Supervisor, Shantanu Agarwal**
                  Flowchart Grounded End-to-End Dialog Systems
Apr'19 – Aug'20   **Co-Supervisor, Vaibhav Adlakha**
                  Knowledge Base Inference for Regular Expression Queries
Jan'14 – Jun'15   **Supervisor, Bhadra Mani**
                  Lab Management & Scaling Up Open IE 4

Teaching Experience

Jan'24 – May'24   **Instructor**, Graduate Course, *Natural Language Processing*
Jul'23 – Dec'23   **Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*
Jan'23 – May'23   **Instructor**, Graduate Course, *Natural Language Processing*
Jul'22 – Dec'22   **Instructor**, Graduate Course, *Natural Language Processing*
Aug'21 – Dec'21   **Instructor**, Graduate Course, *Natural Language Processing*
Feb'21 – Jun'21   **Instructor**, Undergraduate Course, *Data Structures*
Sep'20 – Jan'21   **Instructor**, Graduate Course, *Natural Language Processing*
Jan'20 – Sep'20   **Instructor**, Graduate Course, *Advanced NLP*
Jul'19 – Dec'19   **Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*
Jan'19 – May'19   **Instructor**, Graduate Course, *Natural Language Processing*
Jul'18 – Dec'18   **Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*
Jan'18 – May'18   **Instructor**, Graduate Course, *Natural Language Processing*
Jan'18 – May'18   **Instructor**, Graduate Module Course, *Uncertainty in AI*
Jul'17 – Dec'17   **Instructor**, Undergraduate Course, *Data Structures*
Jan'17 – May'17   **Instructor**, Graduate Course, *Advanced NLP: Information Extraction, Question Answering & Dialog*
Jul'16 – Dec'16   **Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*
Jan'16 – May'16   **Instructor**, Graduate Course, *Natural Language Processing*
Jul'15 – Dec'15   **Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*

Jan'15 – May'15	**Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*
Jul'14 – Dec'14	**Instructor**, Graduate Course, *Natural Language Processing*
Jan'14 – May'14	**Instructor**, Undergraduate (and Graduate Bridge) Course, *Artificial Intelligence*
Sep'12 – Dec'12	**Instructor**, Graduate Course, *Applications of Artificial Intelligence*
Apr'12 – Jun'12	**Instructor**, Graduate Course, *Artificial Intelligence*
Jan'12 – Mar'12	**Organizer**, Machine Learning Lunch and AI Seminar. Topic: *Advanced Tutorials in ML and AI*
Jan'11 – Mar'11	**Instructor**, Graduate Course, *Applications of Artificial Intelligence*
Jan'09 – Mar'09	**Organizer**, AI Seminar. Topic: *Tutorials in Advanced AI*
Oct'08 – Dec'08	**Organizer**, AI Seminar. Topic: *The Current Research in AI*
Oct'07 – Dec'07	**Organizer**, AI Seminar. Topic: *The Future of AI*
Oct'01 – Jun'02	**Teaching Assistant**, University of Washington *Digital Hardware Design, Data Structures, Introduction to Programming I.*
Jan'01 – May'01	**Teaching Assistant**, Indian Institute of Technology, Delhi *Data Structures.*

Grants and Contracts

- Coordinator: Mausam. "Wipro Center of Excellence on Generative Artificial Intelligence". Wipro, Ltd. 2023-28. $1,437,335 (INR 11,80,00,000).

- Principal Investigator: Mausam. "Multimodal Dialog Systems for Synchronously Evolving Modalities". Microsoft Academic Partnership Grant. 2023. $21,500 (INR 17,27,000).

- Co-Principal Investigator: Prasenjit Das, Govind Makharia, Mausam, Prathosh A.P. "Development & Validation of an Explainable Deep Learning Network-based Software for Automated Interpretation & Grading of Duodenal Mucosal Biopsies from patients with Celiac Disease". Indian Council of Medical Research. 2023-24. IITD Share: $12,620 (INR 10,36,160).

- Co-Principal Investigator: Rohan Paul, Souvik Chakraborty, Mausam, Karthik Dantu, Chen Wang. "Learning Physically Grounded Models for Robot Manipulation from Visuo-linguistic Interactions". IIT Delhi-UB Multi-Institution Faculty Interdisciplinary Research Proposals Seed Grant. 2023-24. $6,000 (INR 5,00,000).

- Principal Investigator: Mausam. "Building the Next-Generation Task-Oriented Dialog Systems". A Contract with Cognius.ai, 2022-23. $7,200 (INR 5,61,600).

- Principal Investigator: Mausam, Sayan Ranu. "Used Vehicle Price Prediction". A Contract with Shriram Automall India Limited (SAMIL). 2022-23. $22,700, (INR 17,70,000).

- Principal Investigator: Mausam. "Knowledge Graph Embeddings & Recommender Systems". A Contract with KnowDis.ai, 2022-23. $6,400 (INR 5,04,000).

- Principal Investigator: Mausam. "Machine Learning for Financial Data". Verisk Analytics. 2021-22. $26,667 (INR 20,00,000).

- Principal Investigator: Mausam. "Deep Learning for Knowledge Graph based Question Answering". A Contract with Tata Consultancy Services, 2021-23. $10,000 (INR 7,50,000).

- Principal Investigator: Mausam. "Studying End-End Modeling of Symbolic Components in Neural Architectures for Mixed-Mode Tasks". Google Research Award. 2021. $30,000.

- Principal Investigator: Mausam. "Machine Learning for Financial Data". A Contract with Fidelity Business Service, India. 2021. $21,333 (INR 16,00,000).

- Principal Investigator: Mausam. "Multi Language SPO Extraction for KG Research". Huawei Technologies India Pvt. Ltd. Research Award. 2020-21. $50,000 (INR 36,86,000).

- Principal Investigator: Mausam, Prathosh A.P., Prasenjit Roy, Govind Makharia. "Explainable Deep Learning for Automated Evaluation & Grading of Duodenal Biopsies". IIT Delhi-AIIMS Multi-Institution Faculty Interdisciplinary Research Proposals Seed Grant. 2019-2021. $14,000 (INR 10,00,000).

- Co-Principal Investigator: Srikanta Bedathur, Amitabha Bagchi, Mara Ramanath, Parag Singla, Mausam, Sayan Ranu. "Neuro-Symbolic Information Systems". IBM-IITD AI Horizons Network. 2019-22. $600,000.

- Co-Principal Investigator: Chetan Arora, Mausam, Sayan Ranu, Srikanta Bedathur. "Development of Business Intelligence and Fraud Analytics". A Contract with BIFA Unit at GST Network. 2019-20. $33,714 (INR 23,60,000).

- Principal Investigator: Mausam. "Information Extraction in Recruitment". A Contract with Info Edge (India) Ltd. 2018-21. $20,572 (INR 14,40,000).

- Co-Principal Investigator: Kolin Paul, Srikanta Bedathur, Mausam, Maya Ramanath, Sayan Ranu, Parag Singla. "Social Media Analytics for Security (SMACS)". National Security Council Secretariat. 2018-21. $1,162,285 (INR 8,13,60,000).

- Principal Investigator: Mausam. "Task Oriented Dialog Systems". A Contract with 1MG Technologies Pvt. Ltd. 2018-19. $7,143 (INR 5,00,000).

- Principal Investigator: Mausam. "Intelligent Information Systems for Medical Data". 1MG Technologies Pvt. Ltd. Research Award. 2018-19. $7,143 (INR 5,00,000).

- Principal Investigator: Mausam, Parag Singla. "Probabilistic Inference over Textual Knowledge bases". IBM Shared University Research Award. 2017. $15,000.

- Co-Principal Investigator: Parag Singla, Mausam. "Question Answering over Complex Queries". IBM Shared University Research Award. 2017. $15,000.

- Co-Principal Investigator: Parag Singla, Mausam. "Machine Learning for Real Estate Prices". A contract with Info Edge (India) Ltd. 2017-2018. $7,700 (INR 5,00,000).

- Principal Investigator: Mausam. "Hybrid DistMult-Matrix Factorization Models for Open IE Inference". Google's Language Understanding and Knowledge Discovery Focused Research Award. 2017. $50,000.

- Co-Principal Investigator: Nomesh Bolia, Mausam. "Data Driven Legal Reforms". IIT Delhi's Faculty Interdisciplinary Research Proposals Seed Grant. 2016-2017. $7,700 (INR 5,00,000).

- Principal Investigator: Mausam. "Reciprocal Recommendation Systems". A contract with TrulyMadly Matchmakers Pvt. Ltd., New Delhi. 2016-2017. $8,000 (INR 4,80,000).

- Principal Investigator: Mausam. "Coherent Multi-Document Summarization". Bloomberg's Data Science Research Grant. 2015-2016. $42,000.

- Principal Investigator: Mausam. "Asymmetric Relation Phrase Embeddings from Diverse Knowledge Sources". Google's Language Understanding and Knowledge Discovery Focused Research Award. 2015-2016. $50,000.

- Principal Investigator: Mausam. "Information Extraction from Real Estate Texts". A contract with Plabro Networks Pvt. Ltd., Gurgaon. 2015-2016. $1,667 (INR 1,00,000).

- Principal Investigator: Mausam. "Mindspark Student Modeling and Prediction Modeling". A contract with Educational Initiatives Pvt. Ltd., Ahmedabad. 2015-2016. $7,116 (INR 4,27,000).

- Principal Investigator: Mausam. "Open Inference Rule Learning". Google's Language Understanding and Knowledge Discovery Focused Research Award. 2014-2015. $50,000.

- Principal Investigator: Mausam, Parag Singla. "Research on Knowledge Representation and Extraction of Single Event." The Korean Institute of Science and Technology Information (KISTI) IIT Joint Research Contract. 2014. $90,000.

- Principal Investigator: Mausam. "Large-Scale News Summarization for Mobile". Yahoo! Faculty Research and Engagement Award. 2013-2014. $30,000.

- Co-Principal Investigator: Oren Etzioni, Carlos Guestrin, Mausam, Stephen Soderland. "Open Information Extraction for Situational Awareness and Event Prediction". Army Research Office, ARO contract W911NF-13-1-0246. 2013-2016. $1,500,000.

- Co-Principal Investigator: Oren Etzioni, Pedro Domingos, Mausam, Daniel S. Weld, Luke Zettlemoyer. "DEFT Program: Composing Information Extraction, Semantic Parsing and Tractable Inference for Deep NLP". Air Force Research Laboratory, AFRL contract FA8750-13-2-0019 (DARPA direct). 2012-2017. $4,581,964.

- Co-Principal Investigator: Oren Etzioni, Mausam. "DOVETAIL: DOmain Vocabulary from Extraction, Transduction, and Auto Induction of Layout". Air Force Research Laboratory, AFRL contract FA8650-10-C-7058 (subcontract with SRI International). 2010-2014. $1,556,391.94.

  - Principal Investigator. "Scaling Up Multi Document Summarization". UW-IIT Subcontract. 2013-2014. $77,844.

- Principal Investigator: Mausam. "Integrating Paradigms for Approximate Stochastic Planning". National Science Foundation IIS-1016465. 2010-2013. $450,508.

  - Research Experience for Undergraduates Supplement. $16,000.

- Co-Principal Investigator: Daniel S. Weld, Mausam. "Decision-Theoretic Control of Crowd-Sourced Workflows". National Science Foundation IIS-1016713. 2010-2013. $304,669.

- Key Personnel: Oren Etzioni. "ERUDITE: A Machine that Reads". Air Force Research Laboratory, AFRL contract FA8750-09-C-0179 (subcontract with BBN Technologies). 2009-2012.

- Co-Principal Investigator: Oren Etzioni, Pedro Domingos, Stephen Soderland, Mausam. "Reading the Web: Utilizing Markov Logic in Open Information Extraction". National Science Foundation IIS-0803481. 2008-2011. $899,716.

- Co-Principal Investigator: Magdalena Balazinska, Andrew Connolly, Oren Etzioni, Jeffrey Gardener, Bill Howe, Mausam, Daniel S. Weld. Yahoo! Grant for the use of their cloud computing cluster. 2010-2011.

- Key Personnel: Oren Etzioni. "News Retrieval for Cars". Toyota Corporation Gift. $75,000. 2008-2009.

Workshops

- Kamlakar Karlapelam, Craig Knoblock, Mausam, Sameena Shah. "Applied Semantics Extraction and Analytics". A full-day workshop organized at *International Joint Conference on Artificial Intelligence (IJCAI).* Online. August 2021.

- Kartik Talamadupula, Vered Schwartz, Jay Pujara, Rachel Rudinger, Mausam, Nanyun Peng, Pavan Kapanipathi. "Reasoning for Complex Question Answering". A full-day workshop organized at *AAAI Conference on Artificial Intelligence (AAAI).* New York, USA. January 2020.

- Kartik Talamadupula, Michael Witbrock, Peter Clark, Rajarshi Das, Mausam. "Reasoning for Complex Question Answering". A full-day workshop organized at *AAAI Conference on Artificial Intelligence (AAAI).* Honolulu, HI, USA. January 2019.

- Daniel S. Weld, Mausam, Eric Horvitz, Meredith Morris. "Crowdsourcing Personalized Online Education". A University of Washington-Microsoft Research Summer Institute. Cle Elum, WA. July 2012.

- Daniel Bryce, Mausam, Sungwook Yoon. "A Reality Check for Planning and Scheduling Under Uncertainty". A full-day workshop organized at *International Conference on Automated Planning and Scheduling (ICAPS).* Sydney, Australia. September 2008.

Tutorials

- Mausam, Keshav Kolluru. "Open Information Extraction: Approaches & Applications". A tutorial at *NASS-COM Annual Technology Conference.* Online. September 2021.

- Mausam, Yatin Nandwani. "Neuro-Symbolic Artificial Intelligence: A Brief Tutorial". A tutorial at *Open Data Science Conference Asia-Pacific (ODSC APAC).* Online. September 2021.

- Mausam. "An Introduction to Deep Learning for Reinforcement Learning". A tutorial at *AI Shiksha course on Introduction to Deep Learning.* NSM Nodal Centres for Training in HPC and AI. Online. August 2021.

- Mausam. "An Introduction to Deep Learning for Natural Language Processing". A tutorial at *AI Shiksha course on Introduction to Deep Learning.* NSM Nodal Centres for Training in HPC and AI. Online. July 2021.

- Mausam. "An Introduction to Deep Learning for Natural Language Processing". A tutorial at *Faculty Development Programme on Artificial Intelligence.* Amity Institute of Information Technology, Lucknow. Online. January 2021.

- Mausam. "Sequence to Sequence Models with Attention". A tutorial at *Summer School on Machine Learning*. IIIT Hyderabad, Hyderabad, July 2019.

- Mausam. "Model-based Probabilistic Planning". A tutorial at *International Summer School on Planning and Scheduling*. Noordwijk, Netherlands. June 2018.

- Mausam. "Bayesian Networks: Representation, Inference and Learning". A tutorial at *International Course on Multimodal and Advanced Biometrics Authentication*. Jaipur, Rajasthan. January 2017.

- Andrey Kolobov, Mausam. "An Overview of MDP Planning Research at ICAPS". A tutorial at 8th *Barbados Workshop on Reinforcement Learning.* Barbados. April 2013.

- Andrey Kolobov, Mausam. "MDPs for Probabilistic Planning". A half-day tutorial at *AAAI Conference on Artificial Intelligence (AAAI).* Toronto, ON, Canada. July 2012.

- Andrey Kolobov, Mausam. "Probabilistic Planning". A half-day tutorial at 7th Planning and Scheduling School. Sao Paolo, Brazil. June 2012.

- Mausam, David E. Smith, Sylvie Thiebaux. "Probabilistic Temporal Planning". A half-day tutorial at *International Conference on Automated Planning and Scheduling (ICAPS).* Providence, RI, USA. September 2007.

Publications

Books and Book Chapters

- Yatin Nandwani, Mausam, Parag Singla. "Neuro-Symbolic Architectures for Combinatorial Problems in Structured Output Spaces". A book chapter in "Compendium of Neuro-Symbolic Artificial Intelligence". Frontiers in Artificial Intelligence and Applications, IOS Press, August 2023.

- Daniel S. Weld, Mausam, Christopher H. Lin, Jonathan Bragg. "Artificial Intelligence and Collective Intelligence". A book chapter in The Collective Intelligence Handbook. MIT Press. October 2015.

- Mausam, Andrey Kolobov. "Planning with Markov Decision Processes: An AI Perspective". Synthesis Lectures on Artificial Intelligence and Machine Learning, Morgan and Claypool Publishers, June 2012.

Editors

- Kevin Leyton-Brown, Mausam, Yan Liu, Gabriele Roger. "Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)". Online, February 2021. AAAI Press.

- Laura Barbalescu, Jeremy Frank, Mausam, Stephen F. Smith. "Proceedings of the 27th International Conference on Automated Planning and Scheduling (ICAPS)". Pittsburgh, Pennsylvania, USA, June 2017. AAAI Press.

- Madhav Marathe, Mukesh K. Mohania, Mausam, Prateek Jain. "Proceedings of the 3rd IKDD Conference on Data Science (CODS)". Pune, India, March 2016. ACM. ISBN 978-1-4503-4217-9.

Refereed Journal Articles

1. Kevin Leyton-Brown, Mausam, Yatin Nandwani, Hedayat Zarkoob, Chris Cameron, Neil Newman, Dinesh Raghu. "Matching Papers and Reviewers at Large Conferences". *Artificial Intelligence Journal (AIJ).* To appear.

2. Mohd Zaki, Jayadeva, Mausam, N M Anoop Krishnan. "MaScQA: Investigating Materials Science Knowledge of Large Language Models". *Digital Discovery*. RSC Publisher (2024). DOI:10.1039/D3DD00188A.

3. Kevin Leyton-Brown, Mausam, Qiang Yang. "The New Faculty Highlights Program at AAAI-21". *AI Magazine.* Volume 43 Issue 4 (2022) 343-343.

4. Shreshth Tuli, Rajas Bansal, Rohan Paul, Mausam. "TOOLTANGO: Commonsense Generalization in Predicting Sequential Tool Interactions for Robot Plan Synthesis". *Journal of Artificial Intelligence Research (JAIR).* Volume 75 (2022) 1595-1631.

5. Hemangee Kalpesh Kapoor, Mausam, Venkatesh Raman. "Welcome back!". Introduction to India Region Special Section. *Communications of the ACM (CACM).* Volume 65 Issue 11 (2022) 40-42.

6. Tanishq Gupta, Mohammed Zaki, N M Anoop Krishnan, Mausam. "MatSciBERT: A Materials Domain Language Model for Text Mining and Information Extraction" *Npj Computational Materials 8.* 102 (2022).

7. Dinesh Raghu, Nikhil Gupta, Mausam. "Unsupervised Learning of KB Queries in Task-Oriented Dialogs". *Transactions of the Association for Computational Linguistics (TACL).* Volume 9 (2021) 374-390.

8. Danish Contractor, Barun Patra, Mausam, Parag Singla. "Constrained BERT BiLSTM CRF for Understanding Multi-Sentence Entity Seeking Questions". *Natural Language Engineering (NLE)*. Volume 27 Issue 1 (2021) 65-87.

9. Guy Barash, Mauricio Castillo-Effen, Niyati Chhaya, Peter Clark, Huascar Espinoza, Eitan Farchi, Christopher Geib, Odd Erik Gundersen, Sean O hEigeartaig, Jose Hernandez-Orallo, Chiori Hori, Xiaowei Huang, Kokil Jaidka, Pavan Kapanipathi, Sarah Keren, Seokhwan Kim, Marc Lanctot, Danny Lange, David Martinez, Marwan Mattar, Mausam, Julian McAuley, Martin Michalowski, Reuth Mirsky, Roozbeh Mottaghi, Joseph C. Osborn, Julien Perolat, Martin Schmid, Arash Shaban-Nejad, Onn Shehory, Biplav Srivastava, William Streilein, Kartik Talamadupula, Julian Togelius, Koichiro Yoshino, Quanshi Zhang, Imed Zitouni. "Reports of the Workshops Held at the 2019 AAAI Conference on Artificial Intelligence". *AI Magazine*. Volume 40 Issue 3 (2019) 67-78.

10. Mausam. "The Landscape of AI". *Geography & You (GnY)*. Volume 19 Issue 22 (2019) 4-9.

11. Alan Ritter, Luke Zettlemoyer, Mausam, Oren Etzioni. "Modeling Missing Data in Distant Supervision for Information Extraction". *Transactions of the Association for Computational Linguistics (TACL)*. Volume 1(October) (2013) 367-378. Presented at Empirical Methods in Natural Language Processing (EMNLP'13), Seattle, WA, USA.

12. Peng Dai, Christopher H. Lin, Mausam, Daniel S. Weld. "TurKontrol: POMDP-based Control for Crowdsourcing". *Artificial Intelligence Journal (AIJ)*. Volume 202 (2013) 52-85.

13. Andrey Kolobov, Mausam, Daniel S. Weld. "Discovering Hidden Structure in Factored MDPs". *Artificial Intelligence Journal (AIJ)*. Volume 189 (2012) 19-47.

14. Peng Dai, Mausam, Daniel S. Weld. "Topological Value Iteration Algorithms". *Journal of Artificial Intelligence Research (JAIR)*. Volume 42 (2011) 181-209.

15. Stephen Soderland, Brendan Roof, Bo Qin, Shi Xu, Mausam, Oren Etzioni. "Adapting Open Information Extraction to Domain-Specific Relations". *AI Magazine*. Volume 31 Issue 3 (2010) 93-102.

16. Mausam, Stephen Soderland, Oren Etzioni, Daniel S. Weld, Kobi Reiter, Michael Skinner, Marcus Sammer, Jeff Bilmes. "Panlingual Lexical Translation via Probabilistic Inference". *Artificial Intelligence Journal (AIJ)*. Volume 174 Issues 9-10 (2010) 619-637.

17. Nicolas Meuleau, Emmanuelle Benazera, Ronen I. Brafman, Eric A. Hansen, Mausam. "A Heuristic Search Approach to Planning with Continuous Resources in Stochastic Domains". *Journal of Artificial Intelligence Research (JAIR)*. Volume 34 (2009) 27-59.

18. Mausam, Daniel S. Weld. "Planning with Durative Actions in Stochastic Domains". *Journal of Artificial Intelligence Research (JAIR)*. Volume 31 (2008) 33-82.

Archival Conference Papers

1. Jigyasa Gupta, Shreya Sharma, Shreshth Tuli, Rohan Paul, Mausam. "GOALNET: Interleaving Neural Goal Predicate Inference with Classical Planning for Generalization in Robot Instruction Following". *AAAI Conference on Artificial Intelligence (AAAI)*. Vancouver, BC, Canada. February 2024. [Acceptance Rate: 24%]

2. Daman Arora, Himanshu Gaurav Singh, Mausam. "Have LLMs Advanced Enough? A Challenging Problem Solving Benchmark For Large Language Models". *Empirical Methods in Natural Language Processing (EMNLP)*. Singapore. December 2023. [Acceptance Rate: 23%]

3. Pranjal Aggarwal, Aman Madaan, Yiming Yang, Mausam. "Let's Sample Step by Step: Adaptive-Consistency for Efficient Reasoning and Coding with LLMs". *Empirical Methods in Natural Language Processing (EMNLP)*. Singapore. December 2023. [Acceptance Rate: 23%]

4. Vipul Kumar Rathore, Rajdeep Dhingra, Parag Singla, Mausam. "ZGUL: Zero-shot Generalization to Unseen Languages using Multi-source Ensembling of Language Adapters". *Empirical Methods in Natural Language Processing (EMNLP)*. Singapore. December 2023. [Acceptance Rate: 23%]

5. Ishaan Singh, Navdeep Kaur, Garima Gaur, Mausam. "NeuSTIP: A Neuro-Symbolic Model for Link and Time Prediction in Temporal Knowledge Graphs". *Empirical Methods in Natural Language Processing (EMNLP)*. Singapore. December 2023. [Acceptance Rate: 23%]

6. Vishal Sharma, Daman Arora, Mausam, Parag Singla. "SymNet 3.0: Exploiting Long-Range Influences in Learning Generalized Neural Policies for RDDL Relational MDPs". *Conference on Uncertainty in Artificial Intelligence (UAI)*. Pittsburgh, USA. August 2023. [Acceptance Rate: 31%]

7. Harsh Agrawal, Aditya M. Mishra, Manish Gupta, Mausam. "Multimodal Persona Based Generation of Comic Dialogs". *Annual Conference of the Association for Computational Linguistics (ACL)*. Toronto, ON, Canada. July 2023. [Acceptance Rate (Long): 24%]

8. Mayur Patidar, Prayushi Faldu, Avinash Kumar Singh, Lovekesh Vig, Indrajit Bhattacharya, Mausam. "Do I have the Knowledge to Answer? Investigating Answerability of Knowledge Base Questions". *Annual Conference of the Association for Computational Linguistics (ACL)*. Toronto, ON, Canada. July 2023. [Acceptance Rate (Long): 24%]

9. Tanishq Gupta, Mohd Zaki, Devanshi Khatsuriya, Kausik Hira, N M Anoop Krishnan, Mausam. "DiSCoMaT: Distantly Supervised Composition Extraction from Tables in Materials Science Articles". *Annual Conference of the Association for Computational Linguistics (ACL)*. Toronto, ON, Canada. July 2023. [Acceptance Rate (Long): 24%]

10. Ananjan Nandi, Navdeep Kaur, Parag Singla, Mausam. "Simple Augmentations of Logical Rules for Neuro-Symbolic Knowledge Graph Completion". *Annual Conference of the Association for Computational Linguistics (ACL)*. Toronto, ON, Canada. July 2023. [Acceptance Rate (Short): 17%]

11. Shubham Mittal, Keshav Kolluru, Soumen Chakrabarti, Mausam. "mOKB6: A Multilingual Open Knowledge Base Completion Benchmark". *Annual Conference of the Association for Computational Linguistics (ACL)*. Toronto, ON, Canada. July 2023. [Acceptance Rate (Short): 17%]

12. Vishal Saley, Rocktim Das, Dinesh Raghu, Mausam. "DKAF: KB Arbitration for Learning Task-Oriented Dialog Systems with Dialog-KB Inconsistencies". *ACL (Findings)*. Toronto, ON, Canada. July 2023. [Acceptance Rate: 41%]

13. Aayush Kumar Tyagi, Chirag Mohapatra, Prasenjit Das, Govind Makharia, Lalita Mehra, Prathosh AP, Mausam. "DeGPR: Deep Guided Posterior Regularisation For Multi-Class Cell Detection And Counting". *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*. Vancouver, BC, Canada. June 2023. [Acceptance Rate: 26%]

14. Keshav Kolluru, Gabriel Stanovsky, Mausam. "*"Covid vaccine is against Covid but Oxford vaccine is made at Oxford!"* Semantic Interpretation of Proper Noun Compounds". *Empirical Methods in Natural Language Processing (EMNLP)*. Abu Dhabi, United Arab Emirates. December 2022. [Acceptance Rate: 20%]

15. Soumen Chakrabarti, Harkanwar Singh, Shubham Lohiya, Prachi Jain, Mausam. "Joint Completion and Alignment of Multilingual Knowledge Graphs". *Empirical Methods in Natural Language Processing (EMNLP)*. Abu Dhabi, United Arab Emirates. December 2022. [Acceptance Rate: 20%]

16. Dinesh Raghu, Suraj Joshi, Sachindra Joshi, Mausam. "Structural Constraints and Natural Language Inference for End-to-End Flowchart Grounded Dialog Response Generation". *Empirical Methods in Natural Language Processing (EMNLP)*. Abu Dhabi, United Arab Emirates. December 2022. [Acceptance Rate: 20%]

17. Yatin Nandwani, Rishabh Ranjan, Mausam, Parag Singla. "A Solver-free Framework for Scalable Learning in Neural ILP Architectures". *Conference on Neural Information Processing Systems (NeurIPS)*. New Orleans, USA. November 2022. [Acceptance Rate: 26%]

18. Vishal Sharma, Daman Arora, Florian Geißer, Mausam, Parag Singla. "SymNet 2.0: Effectively handling Non-Fluents and Actions in Generalized Neural Policies for RDDL Relational MDPs". *Conference on Uncertainty in Artificial Intelligence (UAI)*. Eindhoven, Netherlands. August 2022. [Acceptance Rate: 32%]

19. Keshav Kolluru, Mohammed Muqeeth, Shubham Mittal, Soumen Chakrabarti, Mausam. "Alignment-Augmented Consistent Translation for Multilingual Open Information Extraction". *Annual Conference of the Association for Computational Linguistics (ACL)*. Dublin, Ireland. May 2022. [Acceptance Rate: 21%]

20. Vipul Kumar Rathore, Kartikeya Badola, Parag Singla, Mausam. "PARE: A Simple and Strong Baseline for Monolingual and Multilingual Distantly Supervised Relation Extraction". *Annual Conference of the Association for Computational Linguistics (ACL)*. Dublin, Ireland. May 2022. [Acceptance Rate: 21%]

21. Abhyuday Bhartiya, Kartikeya Badola, Mausam. "DiS-ReX: A Multilingual Dataset for Distantly Supervised Relation Extraction". *Annual Conference of the Association for Computational Linguistics (ACL).* Dublin, Ireland. May 2022. [Acceptance Rate: 21%]

22. Yatin Nandwani, Vidit Jain, Mausam, Parag Singla. "Neural Models for Output-Space Invariance in Combinatorial Problems". *International Conference on Learning Representations (ICLR).* Online. April 2022. [Acceptance Rate: 33%]

23. Dinesh Raghu, Shantanu Agarwal, Sachindra Joshi, Mausam. "End-to-End Learning of Flowchart Grounded Task-Oriented Dialogs". *Empirical Methods in Natural Language Processing (EMNLP).* Punta Cana, Dominican Republic. November 2021. [Acceptance Rate: 23%]

24. Danish Contractor, Krunal Shah, Aditi Partap, Parag Singla, Mausam. "Answering POI-recommendation Questions using Tourism Reviews". *ACM International Conference on Information and Knowledge Management (CIKM).* Gold Coast, Queensland, Australia. November 2021. [Acceptance Rate: 22%]

25. Vaibhav Adlakha, Parth Shah, Srikanta J. Bedathur, Mausam. "Regex Queries over Incomplete Knowledge Bases". *Automated Knowledge Base Construction (AKBC).* Online. October 2021.

26. Shreshth Tuli, Rajas Bansal, Rohan Paul, Mausam. "TANGO: Commonsense Generalization in Predicting Tool Interactions for Mobile Manipulators". *International Joint Conference on Artificial Intelligence (IJCAI).* Online. August 2021. [Acceptance Rate: 14%]

27. Dinesh Raghu, Atishya Jain, Mausam, Sachindra Joshi. "Constraint based Knowledge Base Distillation in End-to-End Task Oriented Dialogs". *ACL (Findings).* August 2021.

28. Yatin Nandwani, Deepanshu Jindal, Mausam, Parag Singla. "Neural Learning of One-of-Many Solutions for Combinatorial Problems in Structured Output Spaces". *International Conference on Learning Representations (ICLR).* Online. May 2021. [Acceptance Rate: 29%]

29. Danish Contractor, Shashank Goel, Mausam, Parag Singla. "Joint Spatio-Textual Reasoning for Answering Tourism Questions". *The Web Conference (WWW).* Online. April 2021. [Acceptance Rate: 21%]

30. Prachi Jain, Sushant Rathi, Mausam, Soumen Chakrabarti. "Temporal Knowledge Base Completion: New Algorithms and Evaluation Protocols". *Empirical Methods in Natural Language Processing (EMNLP).* Online. November 2020. [Acceptance Rate: 22.4%]

31. Keshav Kolluru, Vaibhav Adlakha, Samarth Aggarwal, Mausam, Soumen Chakrabarti. "Constrained Iterative Labeling for Open Information Extraction". *Empirical Methods in Natural Language Processing (EMNLP).* Online. November 2020. [Acceptance Rate: 22.4%]

32. Dirk Groeneveld, Tushar Khot, Mausam, Ashish Sabharwal. "A Simple Yet Strong Pipeline for HotpotQA". *Empirical Methods in Natural Language Processing (EMNLP).* Online. November 2020. [Acceptance Rate (Short): 16.6%]

33. Pratyush Maini, Keshav Kolluru, Danish Pruthi, Mausam. "Why and when should you pool? Analyzing Pooling in Recurrent Architectures". *EMNLP (Findings).* November 2020.

34. Sankalp Garg, Aniket Bajpai, Mausam. "Symbolic Network: Generalized Neural Policies for Relational MDPs". *International Conference on Machine Learning (ICML).* Online. July 2020. [Acceptance Rate: 22%]

35. Keshav Kolluru, Samarth Aggarwal, Vipul Rathore, Mausam, Soumen Chakrabarti. "IMOJIE: Iterative Memory-Based Joint Open Information Extraction". *Annual Conference of the Association for Computational Linguistics (ACL).* Online. July 2020. [Acceptance Rate: 23%]

36. Yatin Nandwani, Ankesh Gupta, Aman Agrawal, Mayank Singh Chauhan, Parag Singla, Mausam. "OxKBC: Outcome Explanation for Factorization Based Knowledge Base Completion". *Automated Knowledge Base Construction (AKBC).* Online. June 2020.

37. Yatin Nandwani, Abhishek Pathak, Mausam, Parag Singla. "Primal Dual Formulation For Deep Learning With Constraints". *Conference on Neural Information Processing Systems (NeurIPS)*. Montreal, Canada. December 2019. [Acceptance Rate: 21%]

38. Sangnie Bhardwaj, Samarth Aggarwal, Mausam. "CaRB: A Crowdsourced Benchmark for Open IE". *Empirical Methods in Natural Language Processing and Onternational Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*. Hongkong, China. November 2019. [Acceptance Rate: 24%]

39. Sankalp Garg, Aniket Bajpai, Mausam. "Size-Independent Neural Transfer for RDDL Planning". *International Conference on Automated Planning and Scheduling (ICAPS)*. Berkeley, CA, USA. July 2019. [Acceptance Rate (Short): %]

40. Dinesh Raghu, Nikhil Gupta, Mausam. "Disentangling Language and Knowledge in Task Oriented Dialogs". *Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*. Minneapolis, MN, USA. June 2019. [Acceptance Rate: 23%]

41. Aniket Bajpai, Sankalp Garg, Mausam. "Transfer of Deep Reactive Policies for MDP Planning". *Conference on Neural Information Processing Systems (NeurIPS)*. Montreal, Canada. December 2018. [Acceptance Rate: 21%]

42. Jonathan Bragg, Mausam, Daniel S. Weld. "Sprout: Crowd-Powered Task Design for Crowdsourcing". *ACM User Interface Software and Technology Symposium (UIST)*. Berlin, Germany. October 2018. [Acceptance Rate: 21%]

43. Swarnadeep Saha, Mausam. "Open Information Extraction from Conjunctive Sentences". *International Conference on Computational Linguistics (COLING)*. Santa Fe, NM, USA. August 2018. [Acceptance Rate: 37%]

44. Gagan Madan, Ankit Anand, Mausam, Parag Singla. "Block Value Symmetries in Probabilistic Graphical Models". *Conference on Uncertainty in Artificial Intelligence (UAI)*. Monterey, CA, USA. August 2018. [Acceptance Rate: 31%]

45. Prachi Jain, Pankaj Kumar, Mausam, Soumen Chakrabarti. "Type-Sensitive Knowledge Base Inference Without Explicit Type Supervision". *Annual Meeting of the Association for Computational Linguistics (ACL)*. Montreal, Australia. July 2018. [Acceptance Rate (Short): 24%]

46. Dinesh Raghu, Surag Nair, Mausam. "Inferring Temporal Knowledge for Near-Periodic Recurrent Events". *International Joint Conference on Artificial Intelligence (IJCAI)*. Stockholm, Sweden. July 2018. [Acceptance Rate: 20%]

47. Prachi Jain, Shikhar Murty, Mausam, Soumen Chakrabarti. "Mitigating the Effect of Out-of-Vocabulary Entity Pairs in Matrix Factorization for KB Inference" *International Joint Conference on Artificial Intelligence (IJCAI)*. Stockholm, Sweden. July 2018. [Acceptance Rate: 20%]

48. Christopher Lin, Mausam, Daniel S. Weld. "Active Learning with Unbalanced Classes & Example-Generation Queries". *AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*. Zurich, Switzerland. July 2018. [Acceptance Rate: 29%]

49. Karan Goel, Shreya Rajpal, Mausam. "Octopus: A Framework for Cost-Quality-Time Optimization in Crowdsourcing". *Conference on Human Computation and Crowdsourcing (HCOMP)*. Quebec City, Canada. October 2017. [Acceptance Rate: 29%]

50. Haroun Habeeb, Ankit Anand, Mausam, Parag Singla. "Coarse-to-Fine Lifted MAP Inference in Computer Vision". *International Joint Conference on Artificial Intelligence (IJCAI)*. Melbourne, Australia. August 2017. [Acceptance Rate: 26%]

51. Swarnadeep Saha, Harinder Pal, Mausam. "Bootstrapping for Numerical Open IE". *Annual Meeting of the Association for Computational Linguistics (ACL)* Vancouver, Canada. August 2017. [Acceptance Rate (Short): 18%]

52. Ankit Anand, Ritesh Noothigattu, Parag Singla, Mausam. "Non-Count Symmetries in Boolean & Multi-Valued Prob. Graphical Models". *International Conference on Artificial Intelligence and Statistics (AISTATS)*. Fort Lauderdale, Florida. April 2017. [Acceptance Rate: 32%]

53. Mausam. "Open Information Extraction Systems and Downstream Applications". Invited Paper for Early Career Spotlight Track. *International Joint Conference on Artificial Intelligence (IJCAI)*. New York, NY, USA. July 2016.

54. Ankit Anand, Aditya Grover, Mausam, Parag Singla. "Contextual Symmetries in Probabilistic Graphical Models". *International Joint Conference on Artificial Intelligence (IJCAI)*. New York, NY, USA. July 2016. [Acceptance Rate: 24%]

55. Danish Contractor, Mausam, Parag Singla. "Entity-balanced Gaussian pLSA for Automated Comparison". *Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*. San Diego, CA, USA. June 2016. [Acceptance Rate: 25%]

56. Prachi Jain, Mausam. "Knowledge Guided Linguistic Rewrites for Inference Rule Verification". *Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*. San Diego, CA, USA. June 2016. [Acceptance Rate (Short): 29%]

57. Ankit Anand, Ritesh Noothigattu, Mausam, Parag Singla. "OGA-UCT: On the Go Abstractions in UCT". *International Conference on Automated Planning and Scheduling (ICAPS)*. London, United Kingdom. June 2016. [Acceptance Rate: 35%]

58. Jonathan Bragg, Mausam, Daniel S. Weld. "Optimal Testing for Crowd Workers". *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. Singapore. May 2016. [Acceptance Rate: 25%]

59. Aman Madaan, Ashish Mittal, Mausam, Ganesh Ramakrishnan, Sunita Sarawagi. "Numerical Relation Extraction with Minimal Supervision". *AAAI Conference on Artificial Intelligence (AAAI)*. Phoenix, AZ, USA. February 2016. [Acceptance Rate: 26%]

60. Christopher H. Lin, Mausam, Daniel S. Weld. "Re-active Learning: Active Learning with Relabeling". *AAAI Conference on Artificial Intelligence (AAAI)*. Phoenix, AZ, USA. February 2016. [Acceptance Rate: 26%]

61. Gabriel Stanovsky, Ido Dagan, Mausam. "Open IE as an Intermediate Structure for Semantic Tasks". *Joint Conference of the Annual Meeting of the Association for Computational Linguistics and International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing (ACL-IJCNLP)*. Beijing, China. July 2015. [Acceptance Rate: 22.3%]

62. Ankit Anand, Aditya Grover, Mausam, Parag Singla. "ASAP-UCT: Abstraction of State-Action Pairs in UCT". *International Joint Conference on Artificial Intelligence (IJCAI)*. Buenos Aires, Argentina. July 2015. [Acceptance Rate: 29%]

63. Christopher H. Lin, Mausam, Daniel S. Weld. "To Re(label), or Not To Re(label)". *Conference on Human Computation and Crowdsourcing (HCOMP)*. Pittsburgh, PA, USA. November 2014. [Acceptance Rate: 32%]

64. Jonathan Bragg, Andrey Kolobov, Mausam, Daniel S. Weld. "Parallel Task Routing for Crowdsourcing". *Conference on Human Computation and Crowdsourcing (HCOMP)*. Pittsburgh, PA, USA. November 2014. [Acceptance Rate: 32%]

65. Janara Christensen, Stephen Soderland, Gagan Bansal, Mausam. "Hierarchical Summarization: Scaling Up Multi-Document Summarization". *Annual Meeting of the Association for Computational Linguistics (ACL)*. Baltimore, MD, USA. June 2014. [Acceptance Rate: 27%] [Acceptance Rate (Oral): 19%]

66. Jonathan Bragg, Mausam, Daniel S. Weld. "Crowdsourcing Multi-Label Classification for Taxonomy Creation". *Conference on Human Computation and Crowdsourcing (HCOMP)*. Palm Springs, CA, USA. November 2013. *Best paper award.* [Acceptance Rate: 30%]

67. Niranjan Balasubramanian, Stephen Soderland, Mausam, Oren Etzioni. "Generating Coherent Event Schemas at Scale". *Empirical Methods in Natural Language Processing (EMNLP)*. Seattle, WA, USA. October 2013. [Acceptance Rate: 27%] [Acceptance Rate (Oral): 11%]

68. Janara Christensen, Mausam, Stephen Soderland, Oren Etzioni. "Towards Coherent Multi-Document Summarization". *Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*. Atlanta, GA, USA. June 2013. [Acceptance Rate: 30%] [Acceptance Rate (Oral): 21%]

69. Christopher H. Lin, Mausam, Daniel S. Weld. "Crowdsourcing Control: Moving Beyond Multiple Choice". *Conference on Uncertainty in Artificial Intelligence (UAI)*. Catalina Island, CA, USA. August 2012. [Acceptance Rate: 31%]

70. Andrey Kolobov, Mausam, Daniel S. Weld. "A Theory of Goal-Oriented MDPs with Dead Ends". *Conference on Uncertainty in Artificial Intelligence (UAI)*. Catalina Island, CA, USA. August 2012. [Acceptance Rate: 31%]

71. Alan Ritter, Mausam, Oren Etzioni, Sam Clark. "Open Domain Event Extraction from Twitter". *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD)*. Beijing, China. August 2012. [Acceptance Rate: 18%]

72. Mausam, Michael Schmitz, Stephen Soderland, Robert Bart, Oren Etzioni. "Open Language Learning for Information Extraction". *Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CONLL)*. Jeju, Korea. July 2012. *ACL'2022 ten-year test of time award..* [Acceptance Rate: 22%]

73. Thomas Lin, Mausam, Oren Etzioni. "No Noun Phrase Left Behind: Detecting and Typing Unlinkable Entities". *Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CONLL)*. Jeju, Korea. July 2012. [Acceptance Rate (Oral): 16%]

74. Christopher Lin, Mausam, Daniel S. Weld. "Dynamically Switching between Synergistic Workflows for Crowdsourcing". *AAAI Conference on Artificial Intelligence (AAAI)*. Toronto, ON, Canada. July 2012. Accepted for both poster and oral presentation. [Acceptance Rate: 26%] [Acceptance Rate (Oral): 12%]

75. Andrey Kolobov, Mausam, Daniel S. Weld. "LRTDP vs. UCT for Online Probabilistic Planning". *AAAI Conference on Artificial Intelligence (AAAI)*. Toronto, ON, Canada. July 2012. Accepted for both poster and oral presentation. [Acceptance Rate: 26%] [Acceptance Rate (Oral): 12%]

76. Andrey Kolobov, Mausam, Daniel S. Weld. "Reverse Iterative Deepening for Finite-Horizon MDPs with Large Branching Factors". *International Conference on Automated Planning and Scheduling (ICAPS)*. Sao Paolo, Brazil. June 2012. [Acceptance Rate: 35%]

77. Peng Dai, Mausam, Daniel S. Weld. "Artificial Intelligence for Artificial Artificial Intelligence". *AAAI Conference on Artificial Intelligence (AAAI)*. San Francisco, CA, USA. August 2011. Accepted for both poster and oral presentation. [Acceptance Rate (Oral): 25%][Acceptance Rate (Oral+Poster): 4.4%]

78. Alan Ritter, Sam Clark, Mausam, Oren Etzioni. "Named Entity Recognition in Tweets: An Experimental Study". *Empirical Methods in Natural Language Processing (EMNLP)*. Edinburgh, UK. July 2011. [Acceptance Rate: 23%][Acceptance Rate (Oral): 15%]

79. Oren Etzioni, Anthony Fader, Janara Christensen, Stephen Soderland, Mausam. "Open Information Extraction: the Second Generation". *International Joint Conference on Artificial Intelligence (IJCAI)*. Invited paper. Barcelona, Spain. July 2011.

80. Janara Christensen, Mausam, Stephen Soderland, Oren Etzioni. "An Analysis of Open Information Extraction based on Semantic Role Labeling". *International Conference on Knowledge Capture (KCAP).* Banff, Alberta, Canada. June 2011. [Acceptance Rate: 24%]

81. Andrey Kolobov, Mausam, Daniel S. Weld, Hector Geffner. "Heuristic Search for Generalized Stochastic Shortest Path MDPs". *International Conference on Automated Planning and Scheduling (ICAPS).* Freiburg, Germany. June 2011. [Acceptance Rate: 35%]

82. Thomas Lin, Mausam, Oren Etzioni. "Identifying Functional Relations in Web Text". *Empirical Methods in Natural Language Processing (EMNLP).* Boston, MA, USA. October 2010. [Acceptance Rate (Oral): 14%]

83. Alan Ritter, Mausam, Oren Etzioni. "A Latent Dirichlet Allocation method for Selectional Preferences". *Annual Meeting of the Association for Computational Linguistics (ACL).* Uppsala, Sweden. July 2010. [Acceptance Rate: 25%]

84. Mausam, Stephen Soderland, Oren Etzioni. "Panlingual Lexical Translation via Probabilistic Inference". *AAAI Conference on Artificial Intelligence Nectar Track (AAAI).* Atlanta, GA, USA. July 2010. [Acceptance Rate (Nectar): 25%]

85. Peng Dai, Mausam, Daniel S. Weld. "Decision-Theoretic Control of Crowd-Sourced Workflows". *AAAI Conference on Artificial Intelligence (AAAI).* Atlanta, GA, USA. July 2010. [Acceptance Rate (Oral): 27%]

86. Andrey Kolobov, Mausam, Daniel S. Weld. "SixthSense: Fast and Reliable Recognition of Dead Ends in MDPs". *AAAI Conference on Artificial Intelligence (AAAI).* Atlanta, GA, USA. July 2010. Accepted for both oral and poster presentation. [Acceptance Rate (Oral): 27%][Acceptance Rate (Oral+Poster): 4%]

87. Andrey Kolobov, Mausam, Daniel S. Weld. "Classical Planning in MDP Heuristics: with a Little Help from Generalization". *International Conference on Automated Planning and Scheduling (ICAPS).* Toronto, ON, Canada. May 2010. *Best paper nomination.* Extended version invited for submission to AI Journal. [Acceptance Rate: 34%]

88. Peng Dai, Mausam, Daniel S. Weld. "Focused Topological Value Iteration". *International Conference on Automated Planning and Scheduling (ICAPS).* Thessaloniki, Greece. September 2009. [Acceptance Rate: 34%]

89. Stephen Soderland, Christopher Lim, Mausam, Bo Qin, Oren Etzioni, Jonathan Pool. "Lemmatic Machine Translation". *Machine Translation Summit XII.* Ottawa, Canada. August 2009.

90. Mausam, Stephen Soderland, Oren Etzioni, Daniel S. Weld, Michael Skinner, Jeff Bilmes. "Compiling a Massive, Multilingual Dictionary via Probabilistic Inference". *Joint conference of the Annual Meeting of the Association for Computational Linguistics and International Joint Conference on Natural Language Processing (ACL-IJCNLP).* Suntec, Singapore. August 2009. [Acceptance Rate: 21%]

91. Janara Christensen, Mausam, Oren Etzioni. "A Rose is a Roos is a Ruusu: Querying Translations for Web Image Search", *Joint conference of the Annual Meeting of the Association for Computational Linguistics and International Joint Conference on Natural Language Processing (ACL-IJCNLP).* Suntec, Singapore. August 2009. [Acceptance Rate: 25%]

92. Andrey Kolobov, Mausam, Daniel S. Weld. "ReTrASE: Integrating Paradigms for Approximate Probabilistic Planning". *International Joint Conference on Artificial Intelligence (IJCAI).* Pasadena, CA, USA. July 2009. [Acceptance Rate: 26%]

93. Peng Dai, Mausam, Daniel S. Weld. "Domain Independent, Automatic Partitioning for Probabilistic Planning". *International Joint Conference on Artificial Intelligence (IJCAI).* Pasadena, CA, USA. July 2009. [Acceptance Rate: 26%]

94. Peng Dai, Mausam, Daniel S. Weld. "Partitioned External-Memory Value Iteration". *AAAI Conference on Artificial Intelligence (AAAI).* Chicago, IL, USA. July 2008. [Acceptance Rate: 24%]

95. William Cushing, Subbarao Kambhampati, Karthik Talamadupula, Daniel S. Weld, Mausam. "Evaluating Temporal Planning Domains". *International Conference on Automated Planning and Scheduling (ICAPS).* Providence, RI, USA. September 2007. [Acceptance Rate: 32%]

96. Mausam, Piergiorgio Bertoli, Daniel S. Weld. "A Hybridized Planner for Stochastic Domains". *International Joint Conference on Artificial Intelligence (IJCAI).* Hyderabad, A.P., India. January 2007. [Acceptance Rate (Oral): 16%]

97. William Cushing, Subbarao Kambhampati, Mausam, Daniel S. Weld. "When is Temporal Planning *Really* Temporal?". *International Joint Conference on Artificial Intelligence (IJCAI).* Hyderabad, A.P., India. January 2007. [Acceptance Rate (Oral): 16%]

98. Mausam, Daniel S. Weld. "Probabilistic Temporal Planning with Uncertain Durations". *National Conference on Artificial Intelligence (AAAI).* Boston, MA, USA. July 2006. [Acceptance Rate (Oral): 22%]

99. Mausam, Daniel S. Weld. "Challenges for Temporal Planning with Uncertain Durations". *International Conference on Automated Planning and Scheduling (ICAPS).* The English Lake District, UK. June 2006. [Acceptance Rate (Poster): 69%]

100. Mausam, Emmanuelle Benazara, Ronen Brafman, Nicolas Meuleau, Eric Hansen. "Planning with Continuous Resources in Stochastic Domains". *International Joint Conference on Artificial Intelligence (IJCAI).* Edinburgh, Scotland. August 2005. [Acceptance Rate: 18%]

101. Mausam, Daniel S. Weld. "Concurrent Probabilistic Temporal Planning". *International Conference on Automated Planning and Scheduling (ICAPS).* Monterey, CA, USA. June 2005. [Acceptance Rate: 35%]

102. Nilesh Dalvi, Pedro Domingos, Mausam, Sumit Sanghai, Deepak Verma. "Adversarial Classification". *International Conference on Knowledge Discovery and Data Mining (SIGKDD).* Seattle, WA, USA. August 2004. [Acceptance Rate: 12%]

103. Mausam, Daniel S. Weld. "Solving Concurrent Markov Decision Processes". *National Conference on Artificial Intelligence (AAAI).* San Jose, CA, USA. July 2004. [Acceptance Rate: 26%]

Other Archival Papers

1. Harinder Pal, Mausam. "Demonyms and Compound Relational Nouns in Nominal Open IE". *Workshop on Automated Knowledge Base Construction (AKBC) at NAACL.* San Diego, CA, USA. June 2016.

2. Ankit Anand, Aditya Grover, Mausam, Parag Singla. "A Novel Abstraction Framework for Online Planning". Extended Abstract at *International Conference on Autonomous Agents and Multi-agent Systems (AAMAS).* Istanbul, Turkey. May 2015.

3. Andrey Kolobov, Mausam, Daniel S. Weld. "Joint Crowdsourcing of Multiple Tasks". *Conference on Human Computation and Crowdsourcing (HCOMP), Work in Progress Track.* Palm Springs, CA, USA. November 2013.

4. Christopher H. Lin, Mausam, Daniel S. Weld. "Towards a Language for Non-Expert Specification of POMDPs for Crowdsourcing". *Conference on Human Computation and Crowdsourcing (HCOMP), Work in Progress Track.* Palm Springs, CA, USA. November 2013.

5. Daniel S. Weld, Eytan Adar, Lydia Chilton, Raphael Hoffmann, Eric Horvitz, Mitchell Koch, James Landay, Christopher H. Lin, Mausam. "Personalized Online Education: A Crowdsourcing Challenge". *Human Computation Workshop (HCOMP) at AAAI.* Toronto, ON, Canada. July 2012.

6. Thomas Lin, Mausam, Oren Etzioni. "Entity Linking at Web Scale". *The Knowledge Extraction Workshop (AKBC-WEKEX) at NAACL.* Montreal, Canada. June 2012.

7. Niranjan Balasubramanian, Stephen Soderland, Mausam, Oren Etzioni. "Rel-grams: A Probabilistic Model of Relations in Text". *The Knowledge Extraction Workshop (AKBC-WEKEX) at NAACL.* Montreal, Canada. June 2012.

8. Daniel S. Weld, Mausam, Peng Dai. "Execution Control for Crowdsourcing". *Poster at ACM Symposium on User Interface Software and Technology (UIST).* Santa Barbara, CA, USA. October 2011. [Acceptance Rate: 41%]

9. Daniel S. Weld, Mausam, Peng Dai. "Human Computation *Needs* Artificial Intelligence". *Human Computation Workshop (HCOMP) at AAAI.* San Francisco, CA, USA. July 2011.

10. Thomas Lin, Mausam, Oren Etzioni. "Commonsense from the Web: Relation Properties". *AAAI Fall Symposium on Commonsense Knowledge (CSK).* Arlington, VA, USA. November 2010.

Non-Archival Posters & Workshop Papers

1. Aman Madaan, Pranjal Aggarwal, Ankit Anand, Srividya Pranavi Potharaju, Swaroop Mishra, Pei Zhou, Aditya Gupta, Dheeraj Rajagopal, Yiming Yang, Shyam Upadhyay, Mausam, Manaal Faruqui. "AutoMix: Mixing Models with Few-shot Self and Meta Verification". *Workshop on Robustness of Few-shot and Zero-shot Learning in Large Foundation Models (R0-FoMo) at NeurIPS.* New Orleans, LA, USA. December 2023.

2. Kausik Hira, Mohd Zaki, Dhruvil Sheth, Mausam, N M Anoop Krishnan. "Reconstructing Materials Tetrahedron: Challenges in Materials Information Extraction". *Workshop on AI for Accelerated Materials Design (AI4MAT) at NeurIPS.* New Orleans, LA, USA. December 2023.

3. Vishal Sharma, Daman Arora, Mausam, Parag Singla. "Exploiting Long-Range Influences in Learning Generalized Neural Policies for RDDL Relational MDPs". *Workshop on Bridging the Gap Between AI Planning and Reinforcement Learning (PRL) at IJCAI.* Macao, S.A.R. August 2023.

4. Vishal Sharma, Aniket Gupta, Prayushi Faldu, Rushil Gupta, Mausam, Parag Singla. "Object-Centric Learning of Neural Policies for Zero-shot Transfer over Domains with Varying Quantities of Interest". *Workshop on Bridging the Gap Between AI Planning and Reinforcement Learning (PRL) at IJCAI.* Macao, S.A.R. August 2023.

5. Pranjal Aggarwal, Aman Madaan, Yiming Yang, Mausam. "Let's Sample Step-by-Step: Adaptive-Consistency for Efficient Reasoning with LLMs". *Workshop on Natural Language Reasoning and Structured Explanations at ACL.* Toronto, ON, Canada. July 2023.

6. Mustafa Chasmai, Shreshth Tuli, Mausam, Rohan Paul. "Learning Generalizable Task Policies for Embodied Agents in Domains with Rich Inter-object Interactions". *Workshop on Learning, Perception, and Abstraction for Long-Horizon Planning at CORL.* Auckland, NZ. December 2022.

7. Mohd Zaki, Tanishq Gupta, N. M. Anoop Krishnan, Mausam. "Natural Language Processing Aided Understanding of Material Science Literature". *Symposium on Ceramics and Glasses Modeling by Simulations and Machine Learning at MS&T22.* Pittsburgh, PA, USA. October 2022.

8. Shreya Sharma, Jigyasa Gupta, Shreshth Tuli, Rohan Paul, Mausam. "GoalNet: Inferring Conjunctive Goal Predicates from Human Plan Demonstrations for Robot Instruction Following". *Workshop on Bridging the Gap Between AI Planning and Reinforcement Learning (PRL) at ICAPS.* Online. June 2022.

9. Harkanwar Singh, Soumen Chakrabarti, Prachi Jain, Sharod Roy Choudhury, Mausam. "Multilingual Knowledge Graph Completion With Joint Relation and Entity Alignment" *Automated Knowledge Base Construction (AKBC).* Online. October 2021.

10. Sankalp Garg, Aniket Bajpai, Mausam. "Symbolic Network: Generalized Neural Policies for Relational MDPs". *Workshop on Bridging the Gap Between AI Planning and Reinforcement Learning (PRL) at ICAPS.* Online. October 2020.

11. Rajas Bansal, Shreshth Tuli, Rohan Paul, Mausam. "TOOLNET: Using Commonsense Generalization for Predicting Tool Use for Robot Plan Synthesis". *Workshop on Advances & Challenges in Imitation Learning for Robotics at RSS.* Online. July 2020.

12. Danish Contractor, Barun Patra, Mausam, Parag Singla. "Understanding Complex Multi-sentence Entity seeking Questions". *Workshop on Reasoning for Complex QA (RCQA) at AAAI.* Honolulu, HI, USA. February 2019.

13. Yatin Nandwani, Ankit Anand, Mausam, Parag Singla. "Lifted Inference for Faster Training (LIFT) in End-to-End Neural-CRF models". *Workshop on Relational Representation Learning (R2L) at NeurIPS.* Montreal, Canada. December 2018.

14. Gagan Madan, Ankit Anand, Mausam, Parag Singla. "Block Value Symmetries in Probabilistic Graphical Models". *International Workshop on Statistical Relational AI (StarAI) at IJCAI.* Stockholm, Sweden. July 2018.

15. Haroun Habeeb, Ankit Anand, Mausam, Parag Singla. "Coarse-to-Fine Lifted MAP Inference in Computer Vision". *International Workshop on Statistical Relational AI (StarAI) at UAI.* Sydney, Australia. August 2017.

16. Ankit Anand, Ritesh Noothigattu, Parag Singla, Mausam. "Non-Count Symmetries in Boolean & Multi-Valued Prob. Graphical Models". *International Workshop on Statistical Relational AI (StarAI) at UAI.* Sydney, Australia. August 2017.

17. Christopher Lin, Mausam, Daniel S. Weld. "Re-active Learning: Active Learning with Relabeling". *Conference on Human Computation and Crowdsourcing (HCOMP), Encore Track.* Austin, TX, USA. November 2016.

18. Ankit Anand, Aditya Grover, Mausam, Parag Singla. "Contextual Symmetries in Probabilistic Graphical Models". *International Workshop on Statistical Relational AI (StarAI) at IJCAI.* New York, NY. July 2016. *Best paper award.*

19. Christopher H. Lin, Mausam, Daniel S. Weld. "Reactive learning: Actively Trading Off Larger Noisier Training Sets Against Smaller Cleaner Ones". *Active Learning Workshop & CrowdML – Workshop on Crowdsourcing and Machine Learning at ICML.* Lille, France. July 2015.

20. Jonathan Bragg, Mausam, Daniel S. Weld. "Learning on the Job: Optimal Instruction for Crowdsourcing". *Workshop on Crowdsourcing and Machine Learning at ICML.* Lille, France. July 2015.

21. Shreya Rajpal, Karan Goel, Mausam. "POMDP-Based Worker Pool Selection for Crowdsourcing". *Workshop on Crowdsourcing and Machine Learning at ICML.* Lille, France. July 2015.

22. Christopher H. Lin, Mausam, Daniel S. Weld. "To Re(Label) or Not to Re(Label)". *Workshop on Crowdsourcing and Machine Learning at NIPS.* Montreal, Canada. December 2014.

23. Jonathan Bragg, Mausam, Daniel S. Weld. "Crowdsourcing Multi-Label Classification". *Poster and Presentation at CrowdConf Research Track.* San Francisco, CA, USA. October 2013.

24. Christopher H. Lin, Mausam, Daniel S. Weld. "Programming Self-Optimizing Workfows for Crowdsourcing - A Status Report". *Poster at CrowdConf Research Track.* San Francisco, CA, USA. October 2013.

25. Christopher Lin, Mausam, Daniel S. Weld. "Dynamically Switching between Synergistic Workflows for Crowdsourcing". *Human Computation Workshop (HCOMP) at AAAI.* Toronto, ON, Canada. July 2012.

26. Christopher Lin, Mausam, Daniel S. Weld. "Crowdsourcing Control: Moving Beyond Multiple Choice". *Human Computation Workshop (HCOMP) at AAAI. Toronto, ON, Canada.* July 2012.

27. Andrey Kolobov, Mausam, Daniel S. Weld. "A Theory of Goal-Oriented MDPs with Dead Ends". *Workshop on Heuristics and Search for Domain Independent Planning at ICAPS.* Sao Paolo, Brazil, June 2012.

28. Daniel S. Weld, Mausam, Peng Dai. "Optimizing Crowd-Sourced Work Patterns". *Poster at CrowdConf.* San Francisco, CA, USA. October 2011.

29. Peng Dai, Mausam, Daniel S. Weld. "Decision-Theoretic Control for Crowdsourcing". *Poster at CrowdConf.* San Francisco, CA, USA. October 2011.

30. Peng Dai, Mausam, Daniel S. Weld. "Artificial Intelligence for Artificial Artificial Intelligence". *Human Computation Workshop (HCOMP) at AAAI.* San Francisco, CA, USA. July 2011.

31. Janara Christensen, Mausam, Stephen Soderland, Oren Etzioni. "Semantic Role Labeling for Open Information Extraction". *Workshop on Formalisms and Methodology for Learning by Reading (FAM-LbR) at NAACL.* Los Angeles, CA, USA. June 2010.

32. Hoifung Poon, Janara Christensen, Pedro Domingos, Oren Etzioni, Raphael Hoffmann, Chloe Kiddon, Thomas Lin, Xiao Ling, Mausam, Alan Ritter, Stefan Schoenmackers, Stephen Soderland, Dan Weld, Fei Wu, Congle Zhang. "Machine Reading at the University of Washington". *Workshop on Formalisms and Methodology for Learning by Reading (FAM-LbR) at NAACL.* Los Angeles, CA, USA. June 2010.

33. Peng Dai, Mausam, Daniel S. Weld. "Decision-Theoretic Control of Crowd-Sourced Workflows". *Scheduling and Planning Applications woRKshop (SPARK) at ICAPS.* Toronto, ON, Canada. May 2010.

34. Andrey Kolobov, Mausam, Daniel S. Weld. "Determinize, Solve, and Generalize: Classical Planning for MDP Heuristics". *Workshop on Heuristics for Domain Independent Planning at ICAPS.* Thessaloniki, Greece. September 2009.

35. Andrey Kolobov, Mausam, Daniel S. Weld. "Regressing Deterministic Plans for MDP Function Approximation". *Workshop on a Reality Check for Planning and Scheduling under Uncertainty at ICAPS.* Sydney, Autralia. September 2008.

36. William Cushing, Subbarao Kambhampati, Kartik Talamadupula, Daniel S. Weld, Mausam. "Evaluating Temporal Planning Domains". *Workshop on International Planning Competition: Past, Present and Future, at ICAPS.* Providence, RI, USA. September 2007.

37. Emmanuelle Benazara, Ronen Brafman, Nicolas Meuleau, Mausam, Eric Hansen. "An AO* Algorithm for Planning with Continuous Resources". *Workshop on Planning under Uncertainty for Autonomous Systems, at ICAPS.* Monterey, CA, USA. June 2005.

38. Mausam, Daniel S. Weld. "Concurrent Probabilistic Temporal Planning: Initial Results". *Workshop on Learning and Planning in Markov Processes – Advances and Challenges, at AAAI.* San Jose, CA, USA. July 2004.

39. Pedro Domingos, Yeuhi Abe, Corin Anderson, AnHai Doan, Dieter Fox, Alon Halevy, Geoff Hulten, Henry Kautz, Tessa Lau, Lin Liao, Jayant Madhavan, Mausam, Don Patterson, Matthew Richardson, Sumit Sanghai, Daniel Weld, Steve Wolfman. "Research on Statistical Relational Learning at the University of Washington". *Workshop on Learning Statistical Models from Relational Data, at IJCAI. Acapulco, Mexico.* August 2003.

40. Mausam, Daniel S. Weld. "Solving Relational MDPs with First-Order Machine Learning". *Workshop on Planning under Uncertainty and Incomplete Information, at ICAPS.* Trento, Italy. June 2003.

Technical Reports and Articles

- Ananye Agarwal, Pradeep Shenoy, Mausam. "End-to-End Neuro-Symbolic Architecture for Image-to-Image Reasoning Tasks". ArXiv:2106.03121 [cs.AI]. June 2021.

- Christopher H. Lin, Mausam, Daniel S. Weld. "A Programming Language With a POMDP Inside". ArXiv:1608.08724 [cs.AI]. August 2016.

- Mausam. "Artificial Intelligence – Trends and Implications to the Society". Delta (IET Newsletter, Delhi Network). February 2007.

- Mausam. "A Comparison of Hierarchical Reinforcement Learning Techniques" Generals Exam. University of Washington. 2005.

- Mausam, Daniel S. Weld. "Solving Concurrent Markov Decision Processes" UW-CSE-TR-04-03-03. University of Washington. 2004.

- Mausam, Gaurav Singh Kushwaha. "Cache Efficiency and Sorting Algorithms" B.Tech project, Indian Institute of Technology. 2001.

Honors and Academic Achievements

- AAAI Fellowship, for contributions to NLP, planning and human computation, as well as leadership in AI (2024).

- Ten-year Test of Time Award, awarded by ACL'2022, for the paper *Open Language Learning for Information Extraction*, co-written with Michael Schmitz, Stephen Soderland, Robert Bart and Oren Etzioni.

- IITD Alumni Promising Faculty Award, awarded by IIT Delhi Alumni Association, 2021-22.

- Ranked 64th most influential scholar in AI by Arnetminer AI2000 Ranking, 2021.

- Ranked 56th most influential scholar in NLP by Arnetminer AI2000 Ranking, 2021.

- Awarded the Jai Gupta Chair Fellowship by IIT Delhi (2019).

- Invited to be a panelist for "AI for All: Leveraging Artificial Intelligence for Inclusive Growth" at 4th NITI Lecture (2018). The esteemed audience included Prime Minister Narendra Modi, council of ministers, heads of public sector undertakings and senior bureaucrats.

- Young Faculty Research Fellowship awarded under the Visvesvaraya PhD scheme for Electronics & IT by Govt. of India (2016).

- AAAI Senior Member status, a recognition for long-term participation in AAAI and distinction in the field of artificial intelligence (2015).

- Teaching Excellence Award at IIT Delhi for Spring 2014 semester.

- Runners-up in International Probabilistic Planning Competition 2011, MDP Track, to our planner *Glutton*. Team: Andrey Kolobov, Peng Dai, Mausam, Daniel S. Weld.

- Honorable Mention for the 2008 ICAPS Best Dissertation Award for the best dissertation in planning and scheduling for the year 2007.

- Recipient of the silver medal for being first rank in the computer science department at IIT in the year 2000-2001.

- Recipient of Shashank Vikram Garg Award for the Best All Rounder in the batch at IIT for the year 1999-2000.

- Recipient of Merit Award in all eight semesters, awarded by IIT Delhi for being the top 7% according to the semester GPA.(1997-2000)

- Recipient of National Talent Search Examination Scholarship, awarded by National Council for Educational research and Training, India.(1995)

- Recipient of National Science Talent Search Examination Scholarship (96-97), organised by Universal Trust. (All India 2nd Rank).

- Recipient of National Science Talent Search Examination Scholarship (95-96), organised by Universal Trust. (All India 2nd Rank).

- CBSE (Central Board of Secondary Education) Merit Scholarship Holder for being in the top 0.1% in senior High School examination. (1997).

- Secured 11th rank out of about 150,000 (All India) in IIT Entrance Examination, 7th rank (All India) in Roorkee Entrance Examination. (1997)

Professional Service and other Activities

- **Member, Executive Council**   Association for Advancement of Artificial Intelligence (AAAI) (2016-2019).

- **Member, Advisory Board**   International Joint Conference on Artificial Intelligence (IJCAI'16).

- **Program Chair**   AAAI Conference on Artificial Intelligence (AAAI'21), International Conference on Automated Planning and Scheduling (ICAPS'17), IKDD Conference on Data Sciences (CoDS'16).

- **Editor in Chief**   ACL Rolling Review (ARR) 2022-present.

- **Track Chair**   Special track on AI & The Web at International Joint Conference on Artificial Intelligence (IJCAI'16).

- **Tutorial Chair**   Empirical Methods in Natural Language Processing (EMNLP'18), AAAI Conference on Artificial Intelligence (AAAI'16, AAAI'15).

- **Workshop Chair**   Annual Conference of the Association for Computational Linguistics (ACL'22).

- **Local Chair**   AAAI Conference on Artificial Intelligence (AAAI'13), Symposium on Combinatorial Search (SoCS'13), Symposium on Abstraction, Reformulation, and Approximation (SARA'13).

- **Senior Area Chair**   Information Extraction and Text Mining Track at Annual Meeting of the Association for Computational Linguistics (ACL'19).

- **Area Chair**   International Conference on Learning Representations (ICLR'23), Human Computation and Crowdsourcing Track at The Web Conference (WebConf'23), International Joint Conference on Artificial Intelligence (IJCAI'22), AAAI Conference on Artificial Intelligence (AAAI'22), AAAI Conference on Human Computation and Crowdsourcing (HCOMP'21), Information Extraction Track at Annual Meeting of the Association for Computational Linguistics (ACL-IJCNLP'21), Multidisciplinary and Area Chair COI Track at Annual Meeting of the Association for Computational Linguistics (ACL'20), International Conference on Machine Learning (ICML'20), Conference on Automated Knowledge Base Construction (AKBC'20), AAAI Conference on Artificial Intelligence (AAAI'19), Information Extraction & Information Retrieval Track at Conference on Empirical Methods in Natural Language Processing (EMNLP'18), Information Extraction Track at Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT'18), AAAI Conference on Artificial Intelligence (AAAI'18), Information Extraction and Text Mining Track at International Joint Conference on Natural Language Processing (IJCNLP'17), Information Extraction, Information Retrieval, and Question Answering Track at Conference on Empirical Methods in Natural Language Processing (EMNLP'17), IE, QA, Text Mining and Applications Track at Annual Meeting of the Association for Computational Linguistics (ACL'17), Web Mining & Content Analysis Track at World Wide Web Conference (WWW'17), Information Retrieval, Information Extraction & Question Answering Track at International Conference on Computational Linguistics (COLING'16), Information Extraction and Text Mining Track at Annual Meeting of the Association for Computational Linguistics (ACL'15), Information Extraction Track at Empirical Methods in Natural Language Processing (EMNLP'13).

- **Associate Editor**   Journal of Artificial Intelligence Research (JAIR) 2015-present, Artificial Intelligence Journal (AIJ) 2020-22.

- **Senior Program Committee Member**   Conference on Human Computation & Crowdsourcing (HCOMP'16), International Joint Conference on Artificial Intelligence (IJCAI'20, IJCAI'19, IJCAI'15, IJCAI'13, IJCAI'11), International Conference on Automated Planning and Scheduling (ICAPS'13), AAAI Conference on Artificial Intelligence (AAAI'11, AAAI'10).

- **Program Committee Member**   Neural Information Processing Systems (NeurIPS'19, NeurIPS'18), Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'16), International Conference on Web Search and Data Mining (WSDM'15), AAAI Conference on Artificial Intelligence (AAAI'14, AAAI'08, AAAI'05), Conference on Human Computation & Crowdsourcing (HCOMP'15, HCOMP'14, HCOMP'13), International World Wide Web Conference (WWW'14), European Conference on Artificial Intelligence (ECAI'14), Conference on Knowledge Discovery and Data Mining (KDD'13), Empirical Methods in Natural Language Processing (EMNLP'12, EMNLP'10), European Chapter of the Association for Computational Linguistics (EACL'12), International Conference on Automated Planning and Scheduling (ICAPS'18, ICAPS'11, ICAPS'10, ICAPS'09, ICAPS'08, ICAPS'07), Annual Meeting of the Association for Computational Linguistics (ACL'11), International Joint Conference on Artificial Intelligence (IJCAI'09), International Conference on Automated Planning Scheduling Journal Track (ICAPS'15), ACM International Conference on Information and Knowledge Management Demos Track (CIKM'13), Workshop on Graph-based Methods for Natural Language Processing at EMNLP'13, Workshop on Information Extraction & Entity Analytics on Social Media Data at COLING'12, Workshop on International Planning Competition at ICAPS'12, AAAI Student Abstracts (AAAI'11, AAAI'13), Workshop on Foundations and Methodologies for Learning by Reading at IJCAI'11, Workshop on Decision Making in Partially Observable, Uncertain Worlds at IJCAI'11, Workshop on Planning and Scheduling under Uncertainty at ICAPS'10, Workshop on Planning and Learning in Apriori Unknown or Dynamic Domains at IJCAI'05.

- **Journal Editorial Board**   Journal of Artificial Intelligence Research (JAIR), Transactions of the Association for Computational Linguistics (TACL).

- **Reviewer**   Journal of Artificial Intelligence Research (JAIR), Journal of Machine Learning Research (JMLR), Artificial Intelligence Journal (AIJ), Autonomous Agents and Multi Agent Systems (AAMAS), ACM Transactions on Intelligent Systems and Technology (ACM TIST), IEEE Transactions on Knowledge and Data Engineering (TKDE), Journal of Web Semantics (JWS), Knowledge and Information Systems (KAIS), Pattern Recognition Letters (PRL), Journal of Mechanical Design, Distributed and Parallel Databases (DAPD), Natural Lanuage Engineering (NLE), ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'13), Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'10), International Conference on Computational Linguistics (COLING'10), International Joint Conference on Artificial Intelligence (IJCAI'05, IJCAI'07), International Conference on Automated Planning and Scheduling (ICAPS'06), Ubiquitous Computing (UbiComp'07).

- **Panel Reviewer**   National Science Foundation, Division of Information & Intelligent Systems (2013, 2010, 2008), Israel Science Foundation (2015), United States-Israel Binational Science Foundation (2015).

- **Award Selection Committee/Jury**   EMNLP Best Paper Award (2023), ACM India Early Career Research Award (2021-present), IKDD Best Doctoral Dissertation in Data Science Award (2022-present), EMNLP Best Paper Award (2021), SIGIR Best Short Paper Award (2019), CoDS-COMAD Best Paper Award (2019), ICAPS Best Paper Award (2017), IJCAI Best Paper Award (2015), ICAPS Most Influential Paper (10 years older) and Best Dissertation Awards (2011).

- **Panel Member**   Panel on "Generative AI for Boards" at BoardMatters Forum, Ernst & Young (2024), Mumbai, India; Panel on "What can we do about NeurIPS Reviewer #2? Challenges, Solutions, Experiments and Open Problems in Peer Review." at NeurIPS tutorial (2024), New Orleans, LA, USA; Panel on "The profound synergy of humans and machines: The future of AI and automation" at Converge@Walmart (2023), Bangalore, India;

Panel on "Challenges, Opportunities and Worries – the Responsible Use of Generative AI" at Commonwealth of Learning Webinar (2023), Virtual; Panel on "ChatGPT: Hits, Misses, and its Impact on Education" at IIT Delhi (2023); Panel on "Towards Ethical and Responsible AI in Indian Context" at Data Science in India colocated with KDD (2022), Virtual; Panel on "An Overview of Leading AI/ML/DS centers in India" at Data Science in India colocated with KDD (2021), Virtual; Panel on "The Rise of AI-preneurs" at Techarc Webinar (2021), India; Roundtable on "Trustworthy AI for Social Good: AI Technologies in the Indian and U.S. contexts" at Indo-U.S. Science and Technology Forum's U.S.-India Artificial Intelligence (USI-AI) Initiative (2021), Panel on "Enablement & ecosystem development (R&D, Collaboration & Policy Support)" at The NLP Week by NASSCOM (2021), India; Panel on "AI-ML & Data Analytics" at New Age Technology Show at India International Science Festival (2020), India; Panel on "Technology Interventions to Prepare Schools for Post-COVID Times" at Aavishkar Webinar (2020), India; Panel on "Artificial Intelligence/Machine Learning: Science and Society" at Sadhana Editorial Board Meeting (2019), Bangalore, India; Panel on "The Launch of Report of Research in AI in India" at PanIIT AI Conclave (2019), New Delhi, India; Panel on "The Role of R&D in Policing at the visit of IPS Probationers", Bureau of Police Research And Development, New Delhi, India; Panel on "AI for All: Leveraging Artificial Intelligence for Inclusive Growth" at 4th NITI Lecture (2018), New Delhi, India; Panel on "A Future of AI in our Lives" at Technical Symposium, Wadhwani AI Inauguration (2018), Mumbai, India; Panel on "Perception & Applications" at Academic Research Summit (2018), Hyderabad, India; Panel on "BI and Analytics for Better Decision Making" at CIO200 Tech Summit (2017), New Delhi; Panel on "Best Reviewing Practices" at IJCAI (2016), New York; Panel on "Big Data" at BDA (2014), New Delhi; Panel on "How Should Academia Handle Data Science" at CoDS (2014), New Delhi.

- **Session Chair** AAAI Conference on Artificial Intelligence (AAAI'19), International Joint Conference on Artificial Intelligence (IJCAI'18), International Joint Conference on Artificial Intelligence (IJCAI'17), International Conference on Automated Planning and Scheduling (ICAPS'17), International Joint Conference on Artificial Intelligence (IJCAI'16), Conference on Empirical Methods in Natural Language Processing (EMNLP'12), AAAI Conference on Artificial Intelligence (AAAI'11, AAAI'10), Workshop on Foundations and Methodology for Learning by Reading at NAACL'10.

- **Mentor** AAAI'16 Doctoral Consortium, AAAI'13 Student Abstracts, ICAPS'10 Doctoral Consortium.

- **Member** AAAI (2003-lifetime), ACL (2008-present), ACM India (2014-present).

Selected Media Appearances

- Tarun Bhalla in conversation with Mausam. "From IIT Insights to Global Leadership: Unraveling Success Secrets (Podcast)". *Avishkaar, India.* December 2023.

- Rini Choudhury, Mausam, Abhishek Singh. "Perspective – AI: The Road Ahead (Panel Discussion)". *Sansad TV, India.* November 2023.

- Ajay Mishra, M. K. Dutta, Pankaj Kumar, Mausam. "AI: Opportunities and Challenges (Panel Discussion in Hindi)". *DD News, India.* June 2023.

- Vishal Dahiya, Subimal Bhattacharjee, Jaspreet Bindra, Raja Chatila, Mausam, Yatish Rajawat, Divya Siddharth. "AI: Ethical Conundrum (Panel Discussion)". *Sansad TV, India.* April 2023.

- Mark Lynn, Subimal Bhattacharjee, V Kamakoti, Mausam. "Job Displacement by AI (Panel Discussion)". *Doordarshan, India.* March 2023.

- Vishal Dahiya, Subimal Bhattacharjee, Jiten Jain, Khanderao Kand, Mausam. "ChatGPT vs Bard – The AI Push (Panel Discussion)". *Sansad TV, India.* February 2023.

- Vinamre Kasaana in conversation with Mausam. "A Dialogue on Artificial Intelligence (Informal Podcast in mixed Hindi-English)". *Dostcast, India.* May 2022.

- Chandra Ranganathan, Rimjhim Agrawal, Vinod Bhat, Mausam, Abhishek Singh. "New HorAIzon - Designing AI-led Solutions for a Smarter World". *Network 18, India.* Sep 2021.

- Frank Pereira, Mausam, Abhinav Prakash. "Big Picture: State of Indian Universities". *Bharata First, India.* Jun 2021.

- Amrita Chaurasia, Subimal Bhattacharjee, Mausam. "Discussion Today: Emerging Technologies: Global Challenges (Panel Discussion in Hindi)". *Rajya Sabha TV, India.* Mar 2021.

- Preeti Singh, Subimal Bhattacharjee, Mausam. "Discussion Today: Indian Technology: New Highs, Better Future (Panel Discussion in Hindi)". *Rajya Sabha TV, India.* Feb 2021.

- Sakal Bhatt, Debjani Ghosh, Amitabh Kant, Mausam, Ajay Prakash Sawhney, Vivek Wadhwa. "DD Dialogue: AI & Roadmap – Leveraging AI Advantage and Application (Panel Discussion)". *Doordarshan, India.* Oct 2020.

- Frank Pereira, Subimal Bhattacharjee, Mausam, Abhishek Singh. "The Big Picture: Responsible AI for Social Empowerment (Panel Discussion)". *Rajya Sabha TV, India.* Oct 2020.

- Parakram Singh Shekhawat, Pavan Duggal, Bharat Gopu, Mausam. "Insight: Artificial Intelligence and India (Panel Discussion in Hindi)". *Lok Sabha TV, India.* Oct 2020.

- Frank Pereira, Subimal Bhattacharjee, Arnab Kumar, Mausam, Ashutosh Sharma. "The Big Picture: Regulating Artificial Intelligence (Panel Discussion)". *Rajya Sabha TV, India.* Jan 2020.

- Vishal Dahiya, Jiten Jain, Arnab Kumar, Mausam, K R Murali Mohan. "The Big Picture: Humans & Artificial Intelligence (Panel Discussion)". *Rajya Sabha TV, India.* Oct 2019.

- Dilip Jha, Mausam, Sanjeev Singh. "India Science: Artificial Intelligence (Panel Discussion in Hindi)". *DD Science, India.* Jun 2019.

- Pratibimb Sharma, Pallava Bagla, Rahul Chaudhary, Mausam. "Insight: Artificial Intelligence and Inclusive Growth (Panel Discussion in Hindi)". *Lok Sabha TV, India.* Oct 2018.

- Sarita Ahlawat, Mausam. "Introduction to AI: Past, Present and Future". *Living Science. New Delhi, India.* Jan 2018.

- Rajiv Makhni in conversation with Mausam. "Artificial Intelligence: A Threat to Humanity?" Contrarian: Truth, Tech, Lies. *NDTV Prime.* Sep 2014.

Colloquia and Invited Talks

- Speaker, BoardMatters Forum, Ernst & Young, Mumbai (January 2024) *An Introduction to Generative AI (in text)*

- Keynote Speaker, Adobe Globalization Summit, Noida (November 2023) *My Experiments with Large Language Models*

- Keynote Speaker, AIMLSystems'23 Workshop on Generative AI, Bangalore (October 2023) *My Experiments with Large Language Models*

- Mohammed bin Zayed University of Artificial Intelligence, Abu Dhabi (July 2023) *Neural Models with Symbolic Representations for Perceptuo-Reasoning Tasks.*

- Invited Speaker, Abu Dhabi Summer Outreach Program, Abu Dhabi (July 2023) *Artificial Intelligence: Past, Present & Future*

- Keynote Speaker, Joint International Conference on Data Science & Management of Data (CODS-COMAD'2023), Mumbai (January 2023) *Neural Models with Symbolic Representations for Perceptuo-Reasoning Tasks*.

- Invited Speaker, NeurIPS'22 Workshop on neuro Causal and Symbolic AI (nCSI), Online (December 2022) *Neural Models with Symbolic Representations for Perceptuo-Reasoning Tasks*.

- Indian Institute of Technology, Bombay (October 2022) *Neural Models with Symbolic Representations for Perceptuo-Reasoning Tasks*.

- Keynote Speaker, Artificial Intelligence Summer School (AISS'2021), Indraprastha Institute of Information Technology Delhi (August 2022) *The Promise of Neuro-Symbolic AI*.

- Delhi Chapter of Indian National Academy of Engineering (May 2022) *Artificial Intelligence: Past, Present & Future*.

- CMInDS Seminar Series Talk, IIT Bombay (April 2022) *Building the Next Generation Intelligent Information Systems*.

- Keynote Speaker. Shri FC Kohli Day, International Institute of Information Technology, Online (March 2022) *Building the Next Generation Intelligent Information Systems*.

- Invited Talk, Brazillian Conference on Intelligent Systems (BRACIS'2021), Online (November 2021) *Building the Next Generation Intelligent Information Systems*.

- Very Large Data Engineering Summit (VLDE), Online (October 2021) *Neural Models for Monolingual & Multilingual Information Extraction*.

- Indo-Taiwan Joint Research Centre on Artificial Intelligence and Machine Learning, IIT Ropar (October 2021) *Information at our Finger Tips: Neural Models for Inteligent Information Systems*.

- NASSCOM Annual Technology Conference, Online (September 2021) *The Promise of Neuro-Symbolic AI*.

- Rakuten Applied AI Conference, Online (August 2021) *The Promise of Neuro-Symbolic AI*.

- Academia-Industry Consortium for Data Science (AICDS-2020), Wenzhou, China (December 2020) *The Promise of Neuro-Symbolic AI*.

- American Express AI-ML Summit, Online (December 2020) *The Open Information Extraction Project*.

- Amazon Research Day, Bangalore (September 2019) *The Need for Symbols within Deep Learning*.

- KnowDis Machine Learning Day, New Delhi (July 2019) *Artificial Intelligence: Past, Present & Future*.

- IIMB-IBM Research Day on Usable AI, Bangalore (June 2019) *Knowledge-Bases: Extraction, Inference & Applications*.

- NVIDIA AI Workshop on Research, Trends and Practices, Bangalore (February 2019) *The Need for Symbols within Deep Learning*.

- National Council for Educational Research & Training, New Delhi (November 2018) *The Future (of Education) with Artificial Intelligence*.

- Indo-Taiwan Joint Workshop on Artificial Intelligence, IIT Madras (November 2018) *Knowledge-Bases: Extraction, Inference & Applications*.

- Academia Sinica-IITD Bilateral Workshop, Taipei, Taiwan (October 2018) *Knowledge-Bases: Extraction, Inference & Applications*.

- Academica Sinica, Taipei, Taiwan (October 2018) *Knowledge-Bases: Extraction, Inference & Applications*.

- A Roundtable on AI for Public Policy, IIT Delhi (September 2018) *What is the State of the Art in AI?*.

- IITD-AIIMS Joint Workshop on Bridging Research & Innovation, AIIMS (August 2018) *Artificial Intelligence at IIT Delhi*.

- Keynote Speaker, World Telecommunication and Information Society Day (May 2018) *AI: Past, Present and Future*.

- Invited Speaker, Open House, IIT Delhi (April 2018) *An Introduction to Artificial Intelligence*.

- IITD-IBM Joint Workshop on AI and Machine Learning, New Delhi (March 2018) *Knowledge-Bases and Beyond*.

- Artificial Intelligence for Innovations in Customer Experience and Service Delivery, New Delhi (March 2018) *AI and Indian Society*.

- Google Workshop on AI/ML Research and Practice in India, Bangalore (March 2018) *Hierarchical Pointer Memory Networks for Goal-Oriented Dialogue*.

- IBM India Research Labs, New Delhi (March 2018) *Knowledge-Bases: Extraction, Inference & Applications*.

- Bing Learning Series, Microsoft Inc., Hyderabad (February 2018) *Open Information Extraction Systems and Downstream Applications*.

- Living Science, New Delhi (January 2018) *AI: Past, Present and Future*.

- Invited Talk, ACM India Joint International Conference on Data Science & Management of Data (January 2018) *How to Crowdsource the Best Training Data in a Budget-Constrained Setting?*.

- Workshop on AI and Social Good, Bangalore (October 2017) *Optimization in Crowdsourcing*.

- Google NLP/NLU Workshop, New York (July 2017) *Question Answering over Complex Questions*.

- Microsoft Research, Redmond (July 2017) *Open Information Extraction Systems and Downstream Applications*.

- Amazon Inc., Seattle (July 2017) *Open Information Extraction Systems and Downstream Applications*.

- Refresher Course on Cybersecurity, IIT Delhi, New Delhi (February 2017) *An Introduction to Natural Language Processing*.

- IEEE International Conference on Computing, Analytics and Security Trends, Pune (December 2016) *The Open Information Extraction Project*

- Center for Artificial Intelligence and Robotics, Bangalore (December 2016) *Open Information Extraction*.

- NCERT Nurturance Programme for National Talent Search Awardees, New Delhi (December 2016) *An Introduction to Artificial Intelligence*.

- Samsung India Research Network Meeting on Intelligence, Bangalore (September 2016) *Open Information Extraction Systems and Downstream Applications*.

- Delhi Library Network and India International Center, New Delhi (September 2016) *Crowdsourcing: An Overview*.

- Microsoft Machine Learning and Data Science Conference, Bangalore (August 2016) *Open IE and Other NLP Research at IIT Delhi*.

- Early Career Spotlight Track at IJCAI'16, New York City (July 2016) *Open Information Extraction Systems and Downstream Applications*.

- Closing the Cognitive Loop: Workshop on Knowledge, Data, and Systems for Cognitive Computing at IJ-CAI'16, New York City (July 2016) *Intelligent Control for Crowdsourcing Applications*.

- Bloomberg L.P., New York City (July 2016) *The Open Information Extraction Project*.

- IBM T.J. Watson Research Center, Yorktown Heights (July 2016) *Open Information Extraction Systems and Downstream Applications*.

- Google Natural Language Understanding Workshop, London (May 2016) *Extracting, Inferring & Using Knowledge-Bases*.

- TACTiCS Analytics Symposium, Mumbai (January 2016) *Crowdsourcing for Large Scale Labeling and Learning*.

- Amazon Inc., Bangalore (December 2015) *The Open Information Extraction Project*.

- Xerox Research Winter School on Machine Learning, Bangalore (December 2015) *Applications of ML in Crowdsourcing*.

- IBM Collaborative Academia Research Exchange, New Delhi (October 2015) *The Open Information Extraction Project*.

- MSR India Workshop on Extreme Classification, Bangalore (August 2015) *AI-ML and Crowdsourcing*.

- Allen Institute for Artificial Intelligence, Seattle (July 2015) *Extraction, Inference, and More*.

- Invited Talk, CrowdML - ICML'15 Workshop on Crowdsourcing and Machine Learning, Lille, France (July 2015) *Intelligent Control meets Crowdsourcing*.

- Google, Mountain View (June 2015) *Open IE for Downstream NLP Applications*.

- NMI Workshop on Recent Advances in Reinforcement Learning, Chennai (March 2015) *Goal-Directed MDPs: Models and Algorithms*.

- FlipKart, Bangalore (March 2015) *Intelligent Control meets Crowdsourcing*.

- ISSA-DRDO, Delhi, CEP Course on Combat Modeling and Simulation, New Delhi (December 2014) *Automated Planning with MDPs in Uncertain Environments*.

- Indo-Australian Meeting on Modelling Large-scale Linked Data, New Delhi (November 2014) *Open IE for Relation Extraction*.

- Columbia University, New York (October 2014) *Coherent, Large-Scale Multi-Document Summarization*.

- University of Pennsylvania, Philadelphia (October 2014) *Decision-Theoretic Crowdsourcing*.

- Opera Solutions, Noida (April 2014) *Open Information Extraction*.

- TACTiCS Analytics Symposium, Delhi (March 2014) *Open Information Extraction*.

- Tata Consultancy Services Innovation Labs, Gurgaon (February 2014) *Recent Advances in Open Information Extraction*.

- IBM India Research Labs, Delhi (November 2013) *Recent Advances in Open Information Extraction*.

- Indian Institute of Technology, Delhi, Computer Science Colloquium (October 2013) *Recent Advances in Open Information Extraction*.

- Yahoo!, Sunnyvale (August 2013) *Coherent Multi-Document Summarization at Scale*.

- Google, Mountain View (August 2013) *Large Scale Information Systems: Extraction, Commonsense Knowledge, and Summarization*.

- Facebook, Menlo Park (August 2013) *Decision-Theoretic Crowdsourcing*.

- 8th Barbados Workshop on Reinforcement Learning, Barbados (April 2013) *Automated Basis Function for Goal-Directed MDPs*.

- Oregon State University, Corvallis, AI Seminar (February 2013) *Decision-Theoretic Crowdsourcing*.

- University of Oregon, Eugene, Computer and Information Science Colloquium (February 2013) *Recent Advances in Open Information Extraction*.

- University of Washington, Seattle, Industrial & Systems Engineering Colloquium (November 2012) *A Crowdsourcing Agent based on POMDPs*.

- University of Maryland, College Park, CLIP Colloquium (October 2012) *Recent Advances in Open Information Extraction*.

- Wavii Inc., Seattle (September 2012) *Open Information Extraction: Recent Advances and Future Directions*.

- Indian Institute of Science, Bangalore, Computer Science Colloquium (September 2012) *Decision-Theoretic Crowdsourcing*.

- Microsoft Research, Bangalore (September 2012), *Decision-Theoretic Crowdsourcing*.

- Indian Institute of Technology, Delhi, Computer Science Colloquium (September 2012) *Decision-Theoretic Crowdsourcing*.

- Indian Institute of Technology, Kanpur, Computer Science Colloquium (September 2012) *Decision-Theoretic Crowdsourcing*.

- Indian Institute of Technology, Bombay, Computer Science Colloquium (August 2012) *Decision-Theoretic Crowdsourcing*.

- Indian Institute of Technology, Madras, Computer Science Colloquium (August 2012) *Open Information Extraction*.

- Microsoft Research, Redmond (August 2012) *Open Information Extraction: Recent Advances and Future Directions*.

- UW-MSR Summer Institute on Crowdsourcing Personalized Online Education (July 2012) *Towards an AI Agent for Online Education*.

- Indian Institute of Technology, Madras, Computer Science Colloquium (April 2012) *Human Intelligence needs Artificial Intelligence*.

- Google, Zurich (June 2011) *Automatic Generation of Commonsense Knowledge*.

- Amazon Inc., Seattle (April 2011) *Artificial Intelligence for Artificial Artificial Intelligence*.

- Indian Institute of Technology, Bombay (October 2010) *Automatic Generation of Commonsense Knowledge*.

- Tata Consultancy Services Innovations Lab (October 2010) *Automatic Generation of Commonsense Knowledge*.

- Indraprastha Institute of Information Technology, Delhi, Computer Science Colloquium (September 2010) *Compiling a Massive, Multilingual Dictionary via Probabilistic Inference*.

- IBM India Research Labs, Delhi (September 2010) *Compiling a Massive, Multilingual Dictionary via Probabilistic Inference*.

- Tata Consultancy Services Innovations Lab (October 2010) *Compiling a Massive, Multilingual Dictionary via Probabilistic Inference*.

- Indian Institute of Technology, Delhi, Computer Science Colloquium (August 2010) *Scaling Probabilistic Planning*.

- Indian Institute of Technology, Bombay, Computer Science Colloquium (March 2008) *Towards Panlingual Translation: supporting translation across all languages*.

- Indian Institute of Technology, Delhi, Computer Science Colloquium (February 2008) *Towards Panlingual Translation: supporting translation across all languages*.

- University of Washington, Seattle, Computer Science Colloquium (February 2008) *Towards Panlingual Translation: supporting translation across all languages*.

- University of Washington, Seattle, Computer Science Colloquium (May 2007) *Beyond Markov Decision Processes for Stochastic Planning*.

- Palo Alto Research Center, Palo Alto (April 2007) *Beyond Markov Decision Processes for Stochastic Planning*.

- SRI International, Menlo Park (April 2007) *Beyond Markov Decision Processes for Stochastic Planning*.

- Microsoft Research, Redmond (March 2007) *Beyond Markov Decision Processes for Stochastic Planning*.

- Intel Research Laboratory, Seattle (March 2007) *Beyond Markov Decision Processes for Stochastic Planning*.

- Institution of Engineering and Technology (UK), Delhi Network (January 2007) *Artificial Intelligence – Trends and Implications to the Society*.

- Microsoft Research, Redmond (November 2006) *Solving Continuous State Markov Decision Processes*.

- Intel Research Laboratory, Seattle (August 2006) *Planning with Uncertain Durative Actions*.

- NASA Ames Research Institute, Mountain View (December 2004) *Concurrent Markov Decision Processes*.

- Indian Agricultural Statistics Research Institute, Delhi (February 2004) *Concurrent Markov Decision Processes*.

- Indian Institute of Technology, Delhi (February 2004) *Concurrent Markov Decision Processes*.

Other Pursuits

- *Indian Classical Musician:* Semi-professional harmonium player for accompanying Hindustani classical vocalists.

- *Musician for Popular Music:* Harmonium and keyboard player for amateur bands performing popular film music, light classical and folk genres.

- *Cinema Aficionado:* Avid movie-buff and enjoys watching world and arthouse cinema.

- *Non-profit Activities:* Affilated with art-related non-profit organizations: SPIC MACAY in Delhi (1997-2001), Pratidhwani in Seattle (2004-2013), Ragamala in Seattle (2008-2013), SAAMAL in Delhi (2023-present).

- *Collector:* Collects non-commercial recordings of Hindustani classical vocal music.