MAYANK KEJRIWAL

4676 Admiralty Way, Ste. 1001, Marina Del Rey, CA 90292 | (217) 819-6696 | kejriwal@isi.edu | [LinkedIn](#) | [GitHub](#) | [Twitter](#) | [Google Scholar](#) |
[DBLP](#) | [ResearchGate](#) | [Academia](#) | [Professional Webpage](#)

CURRENT POSITION

Research Assistant Professor   April 2019-Current
Industrial and Systems Engineering (ISE)
Viterbi School of Engineering, University of Southern California
Engage in research, mentorship and teaching activities as research faculty in the ISE department

Research Team Leader   Sept. 2021-Current
Information Sciences Institute (ISI)
Viterbi School of Engineering, University of Southern California
Lead multiple funded research projects as an affiliated researcher in ISI's Center on Knowledge Graphs

Principal Scientist   Oct. 2023-Current
Information Sciences Institute (ISI)
Viterbi School of Engineering, University of Southern California
Lead multiple funded research projects as director of ISI's Artificial Intelligence and Complex Systems Group

EDUCATION

University of Texas at Austin
Department of Computer Science
M.Sc. and Ph.D., Computer Science   Aug. 2012-May 2016
Graduation G.P.A: *3.83*
Ph.D. thesis: *Populating a Linked Data Entity Name System*
Recipient of SWSA Best Dissertation Award
Adviser: Daniel P. Miranker

University of Southern California
Marshall School of Business
MBA for Professionals and Managers   Aug. 2018-May 2022
Recipient of USC Marshall MBA Admissions Scholarship (2018)
Vice President of Special Projects, EVMA (2019-2020)
Core Vice President, Academics (2018-2019)

University of Illinois at Urbana-Champaign
Department of Electrical and Computer Engineering
B.Sc. in Computer Engineering, Highest Honors   Aug. 2009-Aug. 2012
Graduation G.P.A: *3.89*
Honors thesis: *Machine Learning Techniques in Offline Handwriting Transcription*
Advisers: P. S. Carney and Kenton McHenry

National University of Singapore
Liberal Arts and Sciences
Study Abroad

CURRENT PROJECTS

Combating Human Trafficking   Mar. 2023 – Dec. 2024
Principal Investigator
Amount: $375,000
Funded by private foundation / donor

Healthcare Knowledge Graph   Since Mar. 2022
Principal Investigator
Amount: 200,000$
Funded by Kaiser Permanente

Commonsense Knowledge & Hybrid Artificial Intelligence
for Trusted Flexible Manufacturing 4.0 (CHAIKMAT)   **Since Oct. 2021**
Collaborating Researcher
Funded by the French National Agency of Research (ANR)

Multi-modal Open World Grounded Learning and Inference (MOWGLI)   **Aug. 2019 – Feb. 2024**
Principal Investigator
Amount: 9,850,056$
Funded under DARPA Machine Common Sense (MCS) program
Key Responsibilities: Researching neuro-symbolic techniques and algorithms for enabling machines to understand commonsense situations
evaluated using both natural language and visual question-answering stimuli

PAST PROJECTS

Generating Novelty in Open-World Multi-Agent Environments (GNOME)   **Dec. 2019 – Jun. 2023**
Principal Investigator
Amount: 2,966,772$
Funded under DARPA Science of Artificial Intelligence and Learning for Open-world Novelty (SAIL-ON) program
Key Responsibilities: Developing a domain-independent science of novelty that can be used to characterize novel phenomena at various levels
of granularity and specificity in multiple domains, and a domain-specific testbed (platform, protocol and metrics) that can be used to evaluate
external novelty-adaptive AI systems being developed for playing stochastic multi-agent board games of strategy (e.g., Monopoly)

Developing Artificial Intelligence Forecasting Questions   **Apr. 2022 – Sep. 2022**
Principal Investigator
Amount: 30,106$
Funded by Open Philanthropy via the University of Maryland

A Global Study of Inclusion Correlates   **Aug. 2020-Sep. 2021**
Principal Investigator
Amount: 30,000$
Funded under James H. Zumberge Faculty Research and Innovation Fund Diversity and Inclusion (D&I) Grant

A COVID-19 Knowledge Graph Infrastructure for Assistive Expertise   **Jul. 2020-Feb. 2021**
Principal Investigator
Amount: 30,000$ in computational resources on Azure cloud
Funded under Microsoft COVID-19 AI for Health Grant

Representation Learning for Product Graphs   **Sep. 2019-Sep. 2020**
Principal Investigator
Amount: 25,000$
Funded under Yahoo! Faculty Research Engagement Program (FREP)
Key Responsibilities: Researching knowledge graph-based approaches for processing and doing analytics on Web-scale e-commerce datasets,
including application areas such as product categorization, representation learning and entity reconciliation

THOR: Text-enabled Humanitarian Operations in Real-time   **Jun. 2016-Jan. 2020**
Principal Investigator
Amount: 686,240$
Funded under DARPA Low Resource Languages for Emergent Incidents (LORELEI)
Key Responsibilities: Researching and transitioning robust entity linking, instance matching, clustering and network analysis methods to provide
situational awareness to customers in the humanitarian assistance and disaster relief (HADR) domain

Discovery and Dismantling of Human Trafficking Networks   **Jan. 2019 – Dec. 2020**
Principal Investigator
Amount: 100,000$
Funded under Keston Research Project (non-contract)
Key Responsibilities: Building software and systems to enable a highly collaborative (with law enforcement, federal agencies and social and
political scientists) endeavor to computationally discover (and dismantle) sex trafficking activity at national and global scales

Crisis Understanding using Intelligent Systems   **Jul. 2019**
Principal Investigator
Amount: 4650$

Funded under USC Undergraduate Research Associates Program (URAP)

Key Responsibilities: Mentoring undergraduate students in research in a social impact project that applies Artificial Intelligence techniques to deriving actionable insights from social media data during natural disasters and crises

ELICIT: A System for Extracting and Organizing Causal Information   **Aug. 2017-Jan. 2019**

Funded under DARPA Causal Exploration of Complex Operational Environments (CauseEx)

Key Responsibilities: Semi-automatically modeling and discovering causal factors, and performing entity resolution across nodes of a heterogeneous knowledge graph constructed from structured, semi-structured and unstructured data sources.

DSBox: Data Scientist in a Box   **Mar. 2017-Jan. 2019**

Funded under DARPA Data-driven Discovery of Models (D3M)

Key Responsibilities: Performing research and development on, and building, an automated sequence modeling-based pipeline to minimize data cleaning effort by data scientists in the field.

GAIA: Generating Alternatives for Interpretation and Analysis   **Jan. 2018-Aug. 2018**

Funded under DARPA Active Interpretation of Disparate Alternatives (AIDA)

Key Responsibilities: Building on expertise in knowledge graphs and Entity Resolution to process, refine, link and reason over outputs of upstream multi-modal information extraction systems.

SAGE: Synergistic Anticipation of Geopolitical Events   **Aug. 2017-May 2018**

Funded under IARPA Hybrid Forecasting Competition (HFC)

Key Responsibilities: Building an advanced forecasting platform, both for research and actual use, that uses natural language processing and data mining to assist experts and forecasters in making informed predictions about geopolitical events.

DIG: Domain-specific Insight Graphs   **Jun. 2016-Apr. 2018**

Funded under DARPA MEMEX

Key Responsibilities: Researching and developing robust information extraction, search, link prediction and entity resolution algorithms to assist investigators and law enforcement in complex domains such as human trafficking and securities fraud.

AWARDS, TRAVEL GRANTS AND FELLOWSHIPS/SCHOLARSHIPS

Semi-finalist[1], 2024 INFORMS Franz Edelman Award	**2023-2024**
Recipient, IET Mike Sargeant Medal for Early Career Achievement	**Oct. 2022**
Fellow, Diverse Intelligences Summer Institute	**Jul.-Aug. 2022**
CDO Magazine, 40 Data Leaders Under 40	**May 2022**
Recipient, SIAM Science Policy Fellowship	**2022-2023**
For(bes) The Culture Member	**Since Nov. 2021**
USC Award for Excellence in Mentoring, Graduate Student Category	**2021**
Named Finalist, AAAS Early Career Award for Public Engagement with Science	**2021**
DataEthics4All Top 100 list of DIET Champions	**Feb. 2021**
Runner-up, best case study at the 6th Knowledge Management and Intellectual Capital Excellence Awards	**Dec. 2020**
Phi Kappa Phi Love of Learning Award ($500)	**Aug. 2020**
Microsoft COVID-19 AI for Health Computational Grant (30,000$)	**Jul. 2020**
USC Marshall Dean's List	**Fall 2019**
Copper Black Award for Creative Achievement awarded by the Mensa Foundation	**2019**
Yahoo! Faculty Research Engagement Program (FREP) Recipient	**Sep. 2019**
Intellectual Benefits to Society Award awarded by the Mensa Foundation	**2019**
Red Judge, IBM Watson AI XPrize	**2019**
Forbes 30 Under 30 Shortlist (Science Category)	**2019**
Forbes Under 30 Scholar	**2018**
USC Marshall MBA Admissions Scholarship	**2018-2019**
THOR featured in DARPA's 60th anniversary	**2018**
ISI Publication Award (500$)	**2018**
AI2 Key Scientific Challenge Winner (10,000$)	**2018**
Semantic Web Science Association Best Dissertation Award	**2017**
Amazon Cloud Credits for Research Grant	**2017**
Microsoft Azure for Research Grant	**2017**
AAAI Doctoral Consortium Travel Award	**2015**
Microsoft Azure for Research Grant	**2014**

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[1] Finalists, and the award recipient, will be announced in early 2024.

National Science Foundation Travel Grant	**2014**
Department Nominee: Microsoft, Google fellowships	**2013**
Department Travel Grant	**2013**
MCD Fellowship	**2012-2014**
Daniel and Carol Dobberpuhl Award	**2012**
Senior 100 Honorary	**2012**
Henry O. Koehler Scholarship	**2011**
Chancellor's Scholar	**2010-2012**
Edmund J. James Scholar	**2009-2012**
UIUC Dean's List	**2009-2012**

TEACHING

University of Southern California
Research Assistant Professor

ISE 540: Text Analytics	**Fall 2020-2023**
ISE 599: Special Topics (Applied Predictive Analytics)	**Fall 2019**

CET New Faculty Teaching Institute participant (Fall 2019-Spring 2020)

University of Southern California
Lecturer in Computer Science   **Aug. 2016-Dec. 2016**
CSCI 548: Information Integration

University of Texas at Austin
Teaching Assistant   **Aug. 2012-Jun. 2014**
Contemporary Issues in Computer Science (Spring 2014)
Automata Theory (Spring 2013)
Data Management (Fall 2012, 2013)
Artificial Intelligence (Fall 2012)

PAST EXPERIENCE

Department of Industrial and Systems Engineering, USC
Research Assistant Professor   **Apr. 2019-Current**
Engage in research, mentorship and teaching activities as research faculty in the ISE department

Information Sciences Institute, USC
Research Lead   **Apr. 2019-Current**
Lead multiple government funded research projects in ISI's Center on Knowledge Graphs

Syntegral   **Jan. 2023-Current**
Advisor

University of California at Riverside (UCR)   **Sep. 2021-Current**
UCR Extension Design Thinking
Advisory Board Member

Deep Discovery, Inc.   **Feb. 2021-Aug. 2021**
Advisor

Information Sciences Institute, USC
Computer Scientist   **Jun. 2016-Current**
Conduct research on multiple government-funded projects in ISI's Center on Knowledge Graphs

Information Sciences Institute, USC
AI Seminar Coordinator   **Jan. 2017-Jan. 2018**
Invited experts in AI and organized talks under the Intelligent Systems division at ISI

Capsenta, Inc.
Semantic Web Consultant   **May 2016-Jun. 2016**
Worked on integrating advanced ontology matching solutions in the company's current products

University of Texas at Austin
Graduate Research Assistant   **Jun. 2014-May 2016**
Conducted research in RiBS group led by Daniel P. Miranker

CareerBuilder LLC, Norcross, Georgia
Data Scientist Intern   **May 2015-Aug. 2015**
Worked in the R&D team on the Recruitment Edge and Company Normalization products

Rackspace, the Open Cloud Company, San Antonio, Texas
Summer Intern   **May 2013-Jul. 2013**
Worked on the Big Data team helping with a new Hadoop-based product roll-out

National Center for Supercomputing Applications, Urbana, Illinois
Undergraduate Research Intern   **May 2011-Aug. 2011**
Developed scalable machine learning techniques to automate digital handwriting transcription of terabyte-level US census data

University of Illinois at Urbana-Champaign
Camp Counselor   **May 2010-Aug. 2010**
Designed STEM exercises for high-school students, and supervised them thereof

University of Illinois at Urbana-Champaign
Freshman Research Intern   **May 2010-Aug. 2010**
Helped to automate biomedical image processing tasks using the ImageJ software tool

OUTREACH AND ACTIVITIES

- **Invited Speaker,** Fairness, Inclusion, Respect, and Equity (F.I.R.E) Rounds: "What's in a Name?", organized by University of Michigan
- **Instructor,** USC/ISI Stimulating STEM, DEI program for high school students, Jul. 2023
- **University Advisor,** Trojan Poker Club, Academic Year 2023-2024
- **Mentor,** ISI Mentoring Program (2023-Current)
- **Committee Member**, 2022-2023 Joint Office of Research and Senate Research Committee, University of Southern California
- **Council Member,** Gerson Lehrman Group (GLG) Network, Since Jan. 2022
- **Member,** International Science Reserve, powered by the New York Academy of Sciences, 2022
- **Member,** Neural Network - AI for Good, organized by International Telecommunication Union (ITU), 2022
- **Member,** Engineering Faculty Council, University of Southern California, 2022-Current
- **Committee Member**, 2021-22 FEEC (Faculty Environment and Employment) Committee, University of Southern California
- **Committee Member**, Epstein ISE Diversity, Equity and Inclusion Committee, 2021-Current
- **Oral Presentation**, "Domain-Specific Knowledge Graph Construction for Enabling Seamless AI Applications in the Environmental Sciences," The 3rd NOAA Workshop on Leveraging AI in Environmental Sciences, September 14, 2021
- **Poster Presentation** "Fostering Familial Scientific Appreciation through Graduate Student-Led Activities in Children's Museums (SciMuse)", [Communicating the Future: Engaging the Public in Basic Science](#), Kavli Foundation, July 27, 2021
- **Invited Commentator Panelist,** US State Department's Global Engagement Center Virtual Tech Demo Presentation, June 16, 2021
- **Judge**, Center for Undergraduate Research in Viterbi Engineering (CURVE) Symposium, May 18, 2021
- **Member,** AAAS Local Science Engagement Network (LSEN) Community, Since April, 2021
- **Invited Participant,** XPrize Joint Action Meeting on Advancing Economic Equity for Black Americans, March 2021
- **Selected Participant**, Day One Project Technology Policy Accelerator (15% acceptance rate), *Future of Work* category, Mar.-May 2021
- **Panelist,** *A Strategic Approach to Faculty Racial Equity-Minded Action* hosted by USC Vice Dean Brandi Jones, March 2021
- **Invited Participant,** TEDCircles on AI for Preserving Memory, February 2021
- **Moderator,** Panel on 'Ensuring Responsible AI' on the Ethics & Social Responsibility Stage at RE*WORK's Deep Learning 2.0 Virtual Summit, January 2021, [Website](#)
- **Ethics4NextGenAI Hackathon**, Ambassador & Official Subject Matter Expert, Fall 2020, [Website](#)
- **Working Group on Faculty Representation and Experience (FRE)**, Industrial & Systems Engineering Faculty Representative, Fall 2020
- **ISE Diversity and Inclusion Committee Member**, Summer 2020
- **MIT Operations Simulation Competition**, USC Team MNXP Member, April 2019, [Website](#)
- **Everyone's Business Global Case Competition on Gender Equity**, USC Team Ruth Bader Ginsberg Member, March 2019, [Website](#)
- **AI Topics for K-12,** Editor-in-chief, March 2017-Current, [Website](#)
- **AAAI Connections,** Volunteer, February 2017
- **Present your research to a 12-year old,** Invited speaker at multiple venues, December 2015-May 2016
- **Engineering Open House,** University of Illinois at Urbana-Champaign, 2010

PROFESSIONAL SOCIETIES

- Association for the Advancement of Artificial Intelligence (AAAI)
- National Center for Faculty Development & Diversity (NCFDD)
- Academy of Management (AOM)
- American Association for the Advancement of Science (AAAS)
- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronics Engineers (IEEE)
- Institute for Operations Research and the Management Sciences (INFORMS)
- American Society for Engineering Education (ASEE)
- Society for Industrial and Applied Mathematics (SIAM)
- Cognitive Science Society

ALUMNI NETWORKS

- London School of Economics, Los Angeles Chapter (2019)
- Heidelberg Laureate Forum/German Scholars Organization e.V. (2017)
- University of Texas (2016)
- University of London (2015)
- University of Illinois (2012)

INVITED PARTICIPANT

- **Invited Expert Reviewer,** Royal Academy of Engineering *Chair in Emerging Technologies* scheme
- **SBC Summit Barcelona (Jul. 2023),** invited panel moderator on *The future of search - will generative AI alter internet habits?*
- **Winter School on Semantic Web and Knowledge Graphs (Nov. 2023),** invited instructor on *Knowledge Graphs and Large Language Models: Friends or Foes?*
- **Winter School on Semantic Web and Knowledge Graphs (Nov. 2022),** invited instructor on *Knowledge Graphs versus Ontologies: A Practical Perspective*
- **Winter School on Semantic Web and Knowledge Graphs (Nov. 2021),** invited instructor on *Knowledge Graphs and Entity Resolution*
- **USC AI Futures Symposium on Artificial Intelligence with Common Sense (2021),** invited speaker and panelist
- **Future of Disability Summit (2021),** invited panelist
- **Concordia Summit (2019), co-held with the UN General Assembly in New York City**: Roundtable on using Artificial intelligence for combating online sexual abuse of children
- **National Science Foundation Data Science Workshop (2015), held in Seattle:** NSF-funded workshop attended by Ph.D. level data scientists after a rigorous national selection process
- **Heidelberg Laureate Forum (2015), held in Heidelberg, Germany:** Invitation-only forum for 200 globally selected Math and CS students

RESEARCH MENTOR, PHD COMMITTEES AND DIRECTED RESEARCH

Undergraduate Students:

- Adin Aberbach (Amazon SURE; Swarthmore College, 2023)
- John Lim (NSF REU; Northwestern University, 2023)
- Anik Mandal (Viterbi IUSSTF; Indian Institute of Technology, Kharagpur, 2023)
- David Cody Lingan (NSF REU; Michigan State University, 2022)
- Junyu Ren (Viterbi Undergrad Tsinghua Program; Tsinghua University, 2022)
- Stephanie Kim (Amazon SURE; University of Chicago, 2022)
- Maia Nkonabang (Amazon SURE; USC, 2022)
- Daisy Zhou (URAP)
- Gwen Fang (URAP)

Early Career Scientists / Faculty:

- Akhilesh Jaiswal (Organization Mentor, ISI Mentoring Program, 2023)
- Min-Hsueh Chiu (GNOME, Research Engineer)

PhD Students:

- Yufeng Yin (PhD Thesis Proposal Committee Member)
- Yidan Sun (AI, Networks and Society)
- Zhisheng Tang (MOWGLI)
- Ke Shen (MOWGLI)

M.Sc. Students:
- Navapat Nananukul (Large Language Models)
- Khanin Sisaengsuwanchai (Network Science & Visualization, Large Language Models)
- Tito Alexandre Trindade Grine (M.Sc. Dissertation Committee, Invited External Examiner)
- Zhijie Lin (Independent Directed Research; HKG)
- Sara Melotte (Zumberge D&I)
- Akarsh Nagaraj (GNOME)
- Yuesheng Luo (Social Media Analytics)
- Kyle Wang (Social Media Analytics)
- Hongyu Li (GNOME; Social Media Analytics)
- Lu Wang (Social Media Analytics)
- Shilpa Thomas (GNOME)
- Akarsh Dang (THOR)
- Jiayuan Ding (DIG, Commonsense Reasoning)
- Ravi Kiran Selvam (THOR; e-commerce knowledge graphs)
- Minda Hu (Social media analytics)
- Peilin Zhou (THOR)
- Shixiang Zhu (THOR; CauseEx)
- Xin Huang (THOR; GAIA)
- Xuefeng Yan (THOR; Knowledge Graph Embeddings Project)
- Jianheng Hou (THOR)
- Shuo Zhang (THOR; Fake News Project)
- Yao Gu (THOR; Human Trafficking Project)
- Mozhdeh Gheini (GAIA)
- Fan Pan (THOR)
- ZIhao Zhai (THOR)
- Haotian Zhang (THOR)
- Rahul Kapoor (DIG)
- Yixiang Yao (Record Linkage Toolkit)
- Pulkit Manocha (Record Linkage Toolkit)
- Jing Peng (THOR)
- Qiaozhi Song (THOR)
- Daye Nam (THOR; schema.org)
- Runqi Shao (DIG)
- I-Hui Huang (DSBox)
- Fanghao Luo (DSBox)
- Pratik Kabara (THOR)

PROFESSIONAL SERVICE

Leadership:
- **Invited Reviewer,** Cambridge University Press (2023)
- **Session Chair,** Machine Learning & Networks, Complex Networks and Applications Conference, Menton Riviera, France, 2023
- **Section Editor**, *Technology for Online Social Networking and Human Computer Interaction,* 3rd edition of the Encyclopedia on Social Network Analysis and Mining, Springer, 2023-2024
- **Invited reviewer/panelist,** NSF Graduate Research Fellowship Program (GRFP), 2023
- **Invited panelist,** NSF review panel (P232476) for the Safe Learning-Enabled Systems (SLES) program, 2023
- **PhD Symposium Chair,** The Web Conference, 2023
- **Guest Editor,** Special Issue on Knowledge Graph Generation from Text, Semantic Web Journal, 2023
- **Co-Chair,** International Workshop on Knowledge Graph Generation from Text (Text2KG), 2023
- **Chair,** Demo Track of CIKM, 2022
- **Academic Editor,** PLOS ONE, 2022-Current
- **Session Chair,** Artificial Intelligence III, INFORMS/CORS International Conference, June 2022
- **Co-Chair,** Workshop Track of ASONAM, 2022
- **Session Chair,** "Computational Social Science during COVID-19", INFORMS Annual Meeting 2022, Data Mining Cluster
- **Steering Committee Member,** World Climate Tech Summit
- **Co-Chair and Reviewer,** ESWC International Workshop on Knowledge Graph Generation From Text (Text2KG), 2022
- **Guest Editorial Board Member,** Special Issue on "Interactive Semantic Web", Semantic Web Journal, 2022
- **Session Chair,** Parameter Optimization in Modeling and Complex Systems, INFORMS Annual Meeting, Anaheim CA, 2021
- **Reviewer,** Paths to the Prevention and Detection of Human Trafficking (book published through IGI Global), 2021-2022

- **Editorial Advisory Board member,** Paths to the Prevention and Detection of Human Trafficking (book published through IGI Global), 2022
- **Co-Chair,** Designing Artificial intelligence for Open Worlds, AAAI Spring Symposium, 2022
- **Reviewer,** Springer International Journal of Digital Libraries, 2021
- **Associate Editor**, Frontiers in Big Data - Data Mining and Management, June 2021-current
- **Invited Proposal Reviewer**, Swiss National Science Foundation, Dec. 2021
- **Associate Editor**, Social Network Analysis and Mining (SNAM) Journal, 2021-Current
- **Senior Program Committee Member,** IJCAI, 2021
- **Special Topic (AI and Complex Systems) Editorial Board Member,** MDPI Applied Sciences, 2021-2023
- **Guest Editor,** Special Issue on Knowledge Graph in Industrial Digital Ecosystems, Computers in Industry Journal, 2021
- **Topic Editor,** Special Issue on Knowledge Graphs in Industry, Frontiers in Big Data, 2020-2021
- **Workshop and Tutorial Co-Chair**, International Semantic Web Conference (ISWC), 2021
- **Guest Associate Editor,** Issue on Data Mining and Management, Frontiers, 2020-2021
- **Session Chair**, CIKM (Applied Research Track; Sessions on E-Commerce, and Knowledge Understanding), 2020
- **Co-Chair,** Workshop on Knowledge Graphs and E-Commerce, held at KDD, 2020
- **Reviewer Board Member,** Information Journal, MDPI, 2020
- **Meta-reviewer,** Special Issue on Knowledge, Semantics and AI for Risk and Crisis Management in Journal of Contingencies and Crisis Management, May 2020
- **Co-Track Chair,** Machine Learning Track, Extended Semantic Web Conference (ESWC), 2020
- **General Chair,** ACM Knowledge Capture (K-CAP) Conference, 2019
- **Co-Organizer**, AI for Social Good (Humanitarian Relief and Development Track) at AAAI Fall Symposium, 2019
- **Session Chair,** AAAI Conference (AI and the Web 2 Session), Jan. 29 2019
- **Session Chair,** AAAI Conference (Applications and the Web 1 Session), Jan. 29 2019
- **Session Chair,** AAAI Conference (Applications and the Web 2 Session), Jan. 30 2019

Invited Reviewer (Journals):
- **Reviewer,** Digital Discovery (Royal Society of Chemistry), 2023
- **Reviewer,** Computers in Biology and Medicine, 2023
- **Reviewer,** Artificial Intelligence Journal, 2023
- **Reviewer,** IEEE Transactions on Big Data, 2023
- **Invited Book Reviewer,** Elsevier, 2023
- **Reviewer,** International Journal for Digital Earth (Taylor & Francis), 2023
- **Reviewer,** IEEE Journal of Biomedical and Health Informatics, 2023
- **Reviewer,** Connection Science, 2023
- **Reviewer,** Frontiers in Sociology -- Urban Ecology, 2023
- **Reviewer,** Heritage Science (Springer), 2023
- **Reviewer,** Applied Network Science (Springer), 2023
- **Invited Reviewer,** USC Johnson & Johnson WiSTEM2D Scholar Awards Program Candidate Selection (Mathematics Category), 2023
- **Invited Reviewer,** Knowledge and Information Systems Journal, Springer, 2022
- **Invited Book Proposal Reviewer,** Springer Nature Group, 2022
- **Invited Reviewer,** Frontiers Communication – Health Communication, 2022
- **Reviewer,** Nature Human Behavior, 2022
- **Reviewer,** Discover Artificial Intelligence, 2022
- **Invited Reviewer,** Nature, 2022
- **Reviewer,** Engineering Applications of Artificial Intelligence, 2022
- **Invited Reviewer,** PLOS Digital Health, 2022
- **Invited Reviewer,** PLOS ONE, 2022
- **Reviewer,** Nature Machine Intelligence, 2022
- **Reviewer,** Journal of Computational Social Science, 2022
- **Invited Reviewer,** Frontiers in Public Health, Infectious Diseases – Surveillance, Prevention and Treatment, 2022
- **Reviewer,** ACM Transactions on Internet Technology (TOIT), 2022
- **Reviewer,** Computers in Biology and Medicine, 2022
- **Reviewer,** SoftwareX, 2022
- **Reviewer**, IEEE Transactions on Knowledge Discovery from Data, 2022
- **Reviewer,** Cybernetics and Systems (Taylor & Francis), 2022
- **Reviewer,** Frontiers in Psychiatry, 2021
- **Reviewer,** DL4KG, 2021
- **Reviewer**, SoftwareX Journal, Dec. 2021
- **Reviewer,** 11th IEEE Global Humanitarian Technology Conference, 2021
- **Reviewer**, IEEE Transactions on Knowledge Discovery from Data, 2021

- **Reviewer**, Semantic Web Journal, 2021-2022
- **Reviewer**, Future Internet, 2021
- **Reviewer,** Information Sciences (Elsevier), 2021
- **Reviewer,** CHI 2021
- **Reviewer**, International Journal of Intelligent Systems, 2021
- **Reviewer**, IEEE Journal of Biomedical and Health Informatics, 2020-2021
- **Reviewer,** Data Mining and Knowledge Discovery, 2020
- **Reviewer,** Expert Systems with Applications (Elsevier), 2020
- **Reviewer,** Telematics and Informatics (Elsevier), 2020
- **Reviewer,** Information Processing & Management (Elsevier), 2020
- **Reviewer,** IEEE Transactions on Knowledge and Data Engineering, 2020
- **Reviewer,** Information Sciences (Elsevier), 2020
- **Reviewer,** Patterns (Cell), 2020
- **Reviewer,** Data Science: Methods, Infrastructure and Applications, iOS Press, 2020
- **Reviewer,** SoftwareX, 2019
- **Reviewer**, Expert Systems with Applications (Elsevier), 2019
- **Reviewer,** Data Technologies and Applications, 2019
- **Reviewer,** ACM Computing Surveys, 2019
- **Reviewer,** Data and Knowledge Engineering (Elsevier), 2019
- **Reviewer,** Information Systems (Elsevier), 2019
- **Reviewer,** Applied Sciences Journal (MDPI), 2019

Invited Program Committee Member / Reviewer (Conferences & Workshops):
- **Program Committee Member**, The ACM Web Conference (Industry Track), 2024
- **Program Committee Member,** ESWC, 2024
- **Program Committee Member**, IAAI, 2024
- **Program Committee Member,** 18th IEEE International Conference on Semantic Computing (IEEE ICSC 2024)
- **Program Committee Member**, AAAI, 2024
- **Program Committee Member,** Future of Information and Communication Conference (FICC), 2024
- **Technical Program Committee Member**, Computing Conference, London UK, 2024
- **Peer Reviewer,** 17th IEEE International Conference on Application of Information and Communication Technologies (AICT), 2023
- **Program Committee Member**, CIKM, 2023
- **Program Committee Member**, ISWC (Research Track, In-Use Track), 2023
- **Reviewer,** IEEE Global Humanitarian Technology Conference (GHTC), 2022
- **Program Committee Member,** Workshop on Commonsense Representation and Reasoning, ACL 2023
- **Program Committee Member,** VOILA workshop on Visualization and Interaction for Ontologies and Linked Data, ISWC 2023
- **Program Committee Member**, Future Technologies Conference (FTC), 2023
- **Program Committee Member**, AAAI, 2023
- **Program Committee Member**, ESWC (Research, Posters & Demonstrations), 2023
- **Program Committee Member,** ACM The Web Conference, Industry Track, 2023
- **Technical Program Committee Member,** Future of Information and Communication Conference, 2023
- **Technical Program Committee Member,** Computing Conference, 2023
- **Program Committee Member**, ISWC (Research Track), 2022
- **Program Committee Member,** International Conference on Technologies and Applications of Artificial Intelligence (TAAI), 2022
- **Program Committee Member,** IEEE International Conference on Semantic Computing, 2023
- **Program Committee Member,** Knowledge Graph and Semantic Web (KGSWC) Conference, 2022
- **Program Committee Member**, CIKM (Applied Research Track), 2022
- **Technical Program Committee Member,** Computing Conference, 2022
- **Technical Program Committee Member,** Intelligent Systems Conference, 2022
- **Technical Program Committee Member,** Future Technologies Conference, 2022
- **Technical Program Committee Member,** Future of Information and Communication Conference, 2022
- **Program Committee Member**, ESWC (Research, P&D Tracks), 2022
- **Program Committee Member,** Visualization and Interaction for Ontologies and Linked Data (VOILA) Workshop at ISWC 2022
- **Program Committee Member,** ACM/SIGAPP Symposium on Applied Computing, 2022
- **Program Committee Member**, TheWebConf, 2022
- **Program Committee Member,** AAAI, 2022
- **Program Committee Member,** AAAI (Special Programs and Tracks), 2022
- **Program Committee Member,** AAAI (Demonstration Track), 2022
- **Invited Reviewer,** Academy of Management (AOM) Annual Meeting, 2022
- **Reviewer,** IEEE Global Humanitarian Technology Conference (GHTC), 2022

- **Reviewer,** ACL Workshop on Commonsense Representation and Reasoning, 2022
- **Program Committee Member,** 15th IEEE International Conference on Application of Information and Communication Technologies (AICT), 2021
- **Program Committee Member,** Edited Book - ASONAM, 2021
- **Program Committee Member,** CIKM (Applied Research Track), 2021
- **Program Committee Member,** Second International Workshop on the Combination of Symbolic and Sub-symbolic methods and their Application (CSSA), 2021
- **Program Committee Member,** Indo-American Knowledge Graph and Semantic Web (KGSWC) Conference, 2021
- **Program Committee Member,** The IEEE International Conference on Semantic Computing (ICSC), 2022
- **Program Committee Member,** ESWC (Research, P&D Tracks), 2021
- **Program Committee Member,** AAAI Demo Track, 2021
- **Program Committee Member,** ISWC (In-Use, Research Tracks), 2021
- **Program Committee Member,** 15th IEEE International Conference on Semantic Computing, 2021
- **Program Committee Member,** AAAI Conference (Research Track), 2021
- **Program Committee Member,** International Track, 25th International Conference on Technologies and Applications of Artificial Intelligence (TAAI), 2020
- **Program Committee Member,** Workshop on Combining Symbolic and Sub-Symbolic Methods and Their Applications co-located with CIKM 2020
- **Program Committee Member,** CIKM (Applied Research Track), 2020
- **Program Committee Member,** Poster & Demo track, ESWC, 2020
- **Program Committee Member,** Research track**,** International Semantic Web Conference (ISWC), 2020
- **Program Committee Member,** In-use track**,** International Semantic Web Conference (ISWC), 2020
- **Program Committee Member,** 2nd Conference on Automated Knowledge Base Construction (AKBC), 2020
- **Program Committee Member,** Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies, to be held at the Extended Semantic Web Conference (ESWC) in 2020
- **Program Committee Member,** IEEE International Conference on Semantic Computing (ICSC), 2021
- **Program Committee Member,** Extended Semantic Web Conference (ESWC), 2020
- **Program Committee Member,** AAAI Conference (Demonstrations Track), 2020
- **Program Committee Member,** AAAI Conference (Research Track), 2020
- **Program Committee Member,** Edited Book - ASONAM, 2019
- **Program Committee Member**, New Trends in Representation Learning with Knowledge Graphs (KGRL), ECML PKDD Workshop, 2019
- **Program Committee Member**, The Ninth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS), 2019
- **Program Committee Member,** The 13th IEEE International Conference on Semantic Computing (ICSC), 2020
- **Program Committee Member,** 6th ICML Workshop on Automated Machine Learning (AutoML 2019)
- **Program Committee Member,** Workshop on Knowledge Graph Representation Learning for Flexible Reasoning co-held with ECML-PKDD, 2019
- **Program Committee Member**, International Semantic Web Conference (Research Track), 2019
- **Program Committee Member,** Workshop on Semantic Web for Social Good (SWSG) co-held with the International Semantic Web Conference (ISWC), 2019
- **Program Committee Member**, 7th International Conference on Building and Exploring Web Based Environments (WEB 2019)
- **Program Committee Member**, Extended Semantic Web Conference (ESWC), 2019
- **Reviewer**, 1st International Conference on Automated Knowledge Base Construction, 2019
- **Program Committee Member,** 1st International Workshop on Intelligence & Interaction in Knowledge Engineering (IIKE) held in conjunction with the 13th IEEE International Conference on Semantic Computing, 2019
- **Reviewer**, CHI 2019
- **Program Committee Member,** The 13th IEEE International Conference on Semantic Computing (ICSC), 2019
- **Program Committee Member,** AAAI Conference (Demonstration Track), 2019
- **Program Committee Member,** AAAI Conference (Research Track), 2019
- **Program Committee Member,** The ACM Web Conference (Web Mining and Content Analysis Track), 2019

TUTORIALS, CASE STUDIES AND DEMOS

[25] ***Demo:*** *DeepGraph: Multi-Cluster Interactive Visualization of Complex Networks*
in a Learned Representation Space   **Nov. 2023**
Yidan Sun and **Mayank Kejriwal**
The IEEE/ACM ASONAM Conference, 2023

[24] ***Case Study:*** *Knowledge Management during Crises using an Augmented Artificial Intelligence Framework*   **Sep. 2023**
Mayank Kejriwal

European Conference on Knowledge Management
Final round, Knowledge Management and Intellectual Capital Excellence Awards at ECKM

*[23] **Micro-Seminar:** Artificial General Intelligence: Are we Close(r)?*   **Aug. 2023**
Mayank Kejriwal
Invited Annenberg Micro-seminar, University of Southern California

*[22] **Tutorial:** Machine Intelligence for Open Worlds: A Multi-Domain Tutorial of Challenges and Opportunities*   **Jun. 2023**
Mayank Kejriwal
Tutorial at the 16th annual Artificial General Intelligence (AGI) Conference in Stockholm, Sweden

*[21] **Tutorial:** Knowledge Graphs: A Practical Introduction across Disciplines*   **Dec. 2021**
Mayank Kejriwal
Tutorial at the IEEE Symposium Series on Computational Intelligence (SSCI)

*[20] **Demo:** Unsupervised real-time induction and interactive visualization of taxonomies over*
domain-specific concepts   **Dec. 2021**
Mayank Kejriwal and Ke Shen
The IEEE/ACM ASONAM Conference (held virtually), 2021

*[19] **Tutorial:** Commonsense Knowledge Acquisition and Representation*   **Feb. 2021**
Antoine Bosselut, Filip Ilievsky, **Mayank Kejriwal**, Simon Razniewski
Tutorial at the AAAI Conference
YouTube Link

*[18] **Case Study:** AI and Social Good in the Context of Child Sex Trafficking: Design Space and Best Practices*   **Dec. 2020**
Mayank Kejriwal
21st European Conference on Knowledge Management
Runner-up, Knowledge Management and Intellectual Capital Excellence Awards at ECKM

*[17] **Tutorial:** Knowledge Graphs: A Practical Introduction across Disciplines*   **Dec. 2020**
Mayank Kejriwal
Tutorial at the ASONAM Conference

*[16] **Demo:** Generating Novelty in Open-World Multi-Agent Environments*   **Dec. 2020**
Mayank Kejriwal and Shilpa Thomas
NeurIPS Conference, 2020

*[15] **Tutorial:** Commonsense Knowledge Graphs*   **Nov. 2020**
Filip Ilievsky, **Mayank Kejriwal**, Pedro Szekely
Tutorial at the International Semantic Web Conference (ISWC) in Athens, Greece

*[14] **Micro-Seminar:** AI, Networks and Society*   **Sep. 2019**
Mayank Kejriwal
Invited Annenberg Micro-seminar, University of Southern California

*[13] **Demo:** SAVIZ: Interactive Exploration and Visualization of Social Media over Crisis Data*   **Aug. 2019**
Mayank Kejriwal and Peilin Zhou
The IEEE/ACM ASONAM Conference in Vancouver, Canada 2019

*[12] **Demo:** Expert-Guided Entity Extraction using Expressive Rules*   **Jul. 2019**
Mayank Kejriwal, Runqi Shao and Pedro Szekely
The ACM SIGIR Conference in Paris, France 2019

*[11] **Case Study:** Reusing data and building upon it*   **Aug. 2018**
Mayank Kejriwal, Megan Hardeman and Team Figshare
Figshare case study accessed online

*[10] **Demo:** THOR: Text-enabled Humanitarian Operations in Real-time*   **Apr. 2018**
Mayank Kejriwal, Daniel Gilley, Pedro Szekely, Jill Crisman

The ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018

*[9] **Tutorial:** Social Media Analysis for Situation Awareness during Crises*   **Apr. 2018**
Gregoire Burel, **Mayank Kejriwal**, Prashant Khare, Pedro Szekely
Tutorial at the ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018

*[8] **Case Study:** Technology-assisted Investigative Search: A Case Study from an Illicit Domain*   **Apr. 2018**
Mayank Kejriwal, Pedro Szekely
Case Study at the ACM CHI Conference on Human Factors in Computing Systems in Montreal, Canada 2018

*[7] **Demo:** Unsupervised Hashtag Retrieval and Visualization for Crisis Informatics*   **Feb. 2018**
Yao Gu, **Mayank Kejriwal**
Workshop on Social Web in Emergency and Disaster Management (SWDM), co-held with the
ACM Web Search and Data Mining (WSDM) Conference in Los Angeles, California

*[6] **Tutorial:** Knowledge Graph Construction from Web Corpora*   **Feb. 2018**
Mayank Kejriwal, Craig Knoblock and Pedro Szekely
AAAI Conference, held in New Orleans

*[5] **Demo:** Constructing Domain-specific Search Engines with No Programming*   **Feb. 2018**
Mayank Kejriwal, Pedro Szekely
AAAI Conference, held in New Orleans
Nominated for Best Demo

*[4] **Demo:** A Semantic Search Engine for Investigating Human Trafficking*   **Oct. 2017**
Mayank Kejriwal, Pedro Szekely
International Semantic Web Conference (ISWC), held in Vienna, Austria

*[3] **Tutorial:** Constructing Domain-specific Knowledge Graphs (KGC)*   **Oct. 2017**
Mayank Kejriwal, Craig Knoblock, and Pedro Szekely
Full-day tutorial at International Semantic Web Conference (ISWC), 2017, held in Vienna, Austria

*[2] **Tutorial:** Data Mining in Unusual Domains with Information-rich Knowledge Graph*
Construction, Inference and Search
Mayank Kejriwal and Pedro Szekely   **Aug. 2017**
Conventional Tutorial at KDD, 2017, held in Halifax, Canada

*[1] **Tutorial:** Information Integration*   **Jul. 2017**
Mayank Kejriwal
Tutorial at IS-GEO Summer Institute, 2017 held in Austin, TX

BOOKS AND BOOK CHAPTERS

[16] Named Entity Resolution in Personal Knowledge Graphs   **Oct. 2023**
Mayank Kejriwal
Invited book chapter, *Personal Knowledge Graphs: Methodology, tools and applications*
Publisher: The Institution of Engineering and Technology
Editors: Sanju Tiwari, Francois Scharffe, Fernando Ortiz-Rodriguez, and Manas Gaur
Book Link

[15] Multi-agent Game Domain: Monopoly   **Aug. 2023**
Invited book chapter, *A Unifying Framework for Formal Theories of Novelty*
Publisher: Springer
Editors: Terrance Boult and Walter Scheirer
Book Link

[14] Artificial Intelligence for Industries of the Future   **Dec. 2022**
Mayank Kejriwal
Springer, Future of Business and Finance Series
Book Purchase Link

[13] A Lightweight Global Taxonomy Induction System for E-Commerce Concept Labels   **In prod.**
Mayank Kejriwal, Ke Shen
Lecture Notes in Social Networks, Springer Nature

[12] Local Taxonomy Construction: An Information Retrieval Approach Using Representation Learning   **May 2022**
Mayank Kejriwal, Ravi Kiran Selvam, Chien-Chun Ni, and Nicolas Torzec
Social Media Analysis for Event Detection
Lecture Notes in Social Networks, Springer Nature
Editor: Ozyer, Tansel
Chapter Link

[11] Knowledge Graphs   **Feb. 2022**
Mayank Kejriwal
Invited book chapter
Applied Data Science in Tourism, Springer
Editors: Tourism on the Verge, Roman Egger
Book Link

[10] Knowledge Graphs: Fundamentals, Techniques and Applications   **Mar. 2021**
Mayank Kejriwal, Craig Knoblock, and Pedro Szekely
MIT Press
Book Purchase Link

[9] Smart Cities   **2021**
Mayank Kejriwal
Invited book chapter
Handbook of Big Geospatial Data, Springer
Editors: Martin Werner, Yao-Yi Chiang
Book Link

[8] Visual Exploration and Debugging of Machine Learning Classification over Social Media Data   **2021**
Mayank Kejriwal and Peilin Zhou
Big Data and Social Media Analytics: Trending Applications
Lecture Notes in Social Networks, Springer Nature
Editors: Çakırtaş, Mehmet & Ozdemir, Kemal
Chapter Link

[7] AI and Social Good in the Context of Sex Trafficking: Design Space and Best Practices
Featured book chapter in the *6th Knowledge Management and Intellectual Capital*
Excellence Awards: An Anthology of Case Histories 2020   **2020**
Mayank Kejriwal
Book edited by Dan Remenyi
ISBN10: 1912764830
ISBN13: 978-1912764839
Book Link

[6] Domain-specific Search Engines for Investigating Human Trafficking and Other Illicit Activities   **2020**
Mayank Kejriwal
Invited chapter
Encyclopedia of Criminal Activities and the Deep Web
ISBN13: 978-1522597155
DOI: 10.4018/978-1-5225-9715-5
Encyclopedia Link

[5] Domain-specific Knowledge Graph Construction   **2019**
Mayank Kejriwal
Springer Brief
Book Purchase Link

*[4] Proceedings of the 2018 International Workshop on Learning Representations for
Big Networks (BigNet@WWW2018) co-located with the International World Wide
Web Conference (WWW 2018)*   **2018**
Editors: Jie Tang (Tsinghua University, China), Michalis Vazirgiannis (Ecole Polytechnique, France),
Yuxiao Dong (Microsoft Research, Redmond, CA), Fragkiskos D. Malliaros (CentraleSupelec, France),
Michael Cochez (Fraunhofer FIT, Germany), **Mayank Kejriwal (University of Southern California, USA),**
Achim Rettinger (Karlsruhe Institute of Technology, Germany)
ISBN: 978-1-4503-5640-4
Archival Link: *https://dl.acm.org/citation.cfm?id=3192293*

*[3] Proceedings of the First Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies (DL4KGS)
co-located with the 15th Extended Semantic Web Conference (ESWC 2018)*   **2018**
Editors (Alphabetical Order): Michael Cochez (Fraunhofer Institute for Applied Information Technology, Germany),
Thierry Declerck (DFKI GmbH, Germany), Gerard de Melo (Rutgers University, USA),
Luis Espinosa Anke (Cardiff University, UK), Besnik Fetahu (L3S Research Center, Germany),
Dagmar Gromann (International Center for Computational Logic, Germany),
Mayank Kejriwal (University of Southern California, USA), Maria Koutraki (FIZ-Karlsruhe, Germany),
Freddy Lecue (Accenture, Ireland), Enrico Palumbo (ISMB, Italy), Harald Sack (FIZ-Karlsruhe, Germany)
URN: urn:nbn:de:0074-2106-7
Archival Link: http://ceur-ws.org/Vol-2106

*[2] Joint Proceedings of the International Workshops on Hybrid Statistical Semantic Understanding
 and Emerging Semantics, and Semantic Statistics co-located with the
16th International Semantic Web Conference (ISWC 2017)*   **2017**
Editors (Alphabetical Order): Sarven Capadisli (University of Bonn, Germany), Franck Cotton (INSEE, France),
Xin Luna Dong (Amazon, USA), Ramanathan V. Guha (schema.org, USA), Armin Haller (ANU, Australia),
Pascal Hitzler (Wright State University, USA), Evangelos Kalampokis (University of Macedonia, Greece),
Mayank Kejriwal (University of Southern California, USA), Freddy Lecue (Accenture Technology Labs, Ireland),
D. Sivakumar (Google, USA), Pedro Szekely (University of Southern California, USA),
Raphael Troncy (EURECOM, France) and Michael Witbrock (IBM, USA)
URN: urn:nbn:de:0074-1923-2
Archival Link: http://ceur-ws.org/Vol-1923/

[1] Populating a Linked Data Entity Name System: A Big Data Solution for Unsupervised Instance Matching   **2017**
Mayank Kejriwal
IOS Press, Studies in the Semantic Web Series
ISBN: 978-3-89838-717-0 2017

JOURNAL ARTICLES

[36] TG-CSR: A human-labeled dataset grounded in nine formal commonsense categories   **Oct. 2023**
Henrique Santos, Alice M. Mulvehill, Ke Shen, **Mayank Kejriwal**, Deborah L. McGuinness
Elsevier Data in Brief

[35] A Theoretically Grounded Question Answering Data Set for Evaluating Machine Common Sense   **Sep. 2023**
Henrique Santos, Ke Shen, Alice M. Mulvehill, **Mayank Kejriwal**, Deborah L. McGuinness
Data Intelligence, MIT Press

*[34] Quantifying COVID-19 policy impacts on subjective well-being during the early phase of the
pandemic: A cross-sectional analysis of United States survey data from March to August 2020*   **Sep. 2023**
Ke Shen, **Mayank Kejriwal**
PLOS One

[33] Evaluating deep generative models on cognitive tasks: a case study   **Jun. 2023**
Zhisheng Tang, **Mayank Kejriwal**
Discover Artificial Intelligence

[32] Quantifying Gender Disparity in Pre-Modern English Literature using Natural Language Processing   **May 2023**
Mayank Kejriwal, Akarsh Nagaraj
Journal of Data Science

[31] Using conditional inference to quantify interaction effects of socio-demographic covariates of US COVID-19 vaccine hesitancy   **May 2023**
Ke Shen, **Mayank Kejriwal**
PLOS Global Public Health

[30] Can language representation models think in bets?   **Mar. 2023**
Zhisheng Tang, **Mayank Kejriwal**
Royal Society Open Science

[29] An experimental study measuring the generalization of fine-tuned language representation models across commonsense reasoning benchmarks   **Feb. 2023**
Ke Shen, **Mayank Kejriwal**
Expert Systems, Wiley

[28] Decision Making in Monopoly using a Hybrid Deep Reinforcement Learning Approach   **May 2022**
Marina Haliem, Trevor Bonjour, Aala Alsalem, Shilpa Thomas, Hongyu Li, Vaneet Aggarwal,
Bharat Bhargava, **Mayank Kejriwal**
IEEE Transactions on Emerging Topics in Computational Intelligence

[27] Predicting Zip Code-Level Vaccine Hesitancy in US Metropolitan Areas Using Machine Learning Models on Public Tweets   **Apr. 2022**
Sara Melotte, **Mayank Kejriwal**
PLOS Digital Health

[26] Knowledge Graphs: A Practical Review of the Research Landscape   **Mar. 2022**
Mayank Kejriwal
MDPI Information

[25] Dataset for studying gender disparity in English literary texts   **Feb. 2022**
Akarsh Nagaraj, **Mayank Kejriwal**
Elsevier Data in Brief

[24] Link Prediction between Structured Geopolitical Events: Models and Experiments   **Nov. 2021**
Mayank Kejriwal
Frontiers in Big Data-Big Data Networks

[23] Transfer-Based Taxonomy Induction over Concept Labels   **Nov. 2021**
Mayank Kejriwal, Ke Shen, Chien-Chun Ni, Nicolas Torzec
Engineering Applications of Artificial Intelligence (Elsevier)

[22] An experimental study measuring human annotator categorization agreement on commonsense sentences   **Jun. 2021**
Henrique Santos, **Mayank Kejriwal**, Alice M. Mulvehill, Gretchen Forbush, Deborah L. McGuinness
Experimental Results (Cambridge University Press)

[21] An Empirical Study of Emoji Usage on Twitter in Linguistic and National Contexts   **Jun. 2021**
Mayank Kejriwal, Qile Wang, Hongyu Li, Lu Wang
Online Social Networks and Media
Press (selected only): Global News Canada, CNN Indonesia, IT-daily.net, Diario De Cuyo (Argentina),
Scientias.nl, phys.org, PresseText, then24.com, Market Research Telecast, FTD (Germany),
Forosocuellamos (Spain), exame.com, Upgrade Magazine, Psychomedia, Samachar Central (Canada),
NewsBeezer, IFL Science, studyfinds.org, UniVistaTV

[20] A multi-agent simulator for generating novelty in monopoly   **Jun. 2021**
Mayank Kejriwal, Shilpa Thomas
Simulation Modelling Practice and Theory

[19] A Geo-Tagged COVID-19 Twitter Dataset for 10 North American Metropolitan Areas over a 255-Day Period   **Jun. 2021**

Sara Melotte, **Mayank Kejriwal**
MDPI Data

[18] An evaluation and annotation methodology for product category matching in e-commerce   **Jun. 2021**
Mayank Kejriwal, Ke Shen, Chien-Chun Ni, Nicolas Torzec
Computers in Industry

[17] Socioeconomic Correlates of Anti-Science Attitudes in the US   **Jun. 2021**
Minda Hu, Ashwin Mohan Rao, **Mayank Kejriwal,** Kristina Lerman
MDPI Future Internet, Special Issue Digital and Social Media in the Disinformation Age

[16] Measuring spatio-textual affinities in twitter between two urban metropolises   **Jun. 2021**
Minda Hu, **Mayank Kejriwal**
Journal of Computational Social Science

[15] On using centrality to understand importance of entities in the Panama Papers   **Mar. 2021**
Mayank Kejriwal
PLOS One

[14] Unsupervised DNF Blocking for Efficient Linking of Knowledge Graphs and Tables   **Mar. 2021**
Mayank Kejriwal
MDPI Information Journal, Special issue on Knowledge Graphs for Search and Recommendation

[13] A meta-engine for building domain-specific search engines   **Dec. 2020**
Mayank Kejriwal
Software Impacts Journal

[12] Knowledge Graphs and COVID-19: Opportunities, Challenges, and Implementation   **Oct. 2020**
Mayank Kejriwal
Harvard Data Science Review, Special Issue on COVID-19: Unprecedented Challenges and Chances

[11] Structural studies of the global networks exposed in the Panama papers   **Sep. 2020**
Mayank Kejriwal, Akarsh Dang
Applied Network Science

[10] On detecting urgency in short crisis messages using minimal supervision and transfer learning   **Jul. 2020**
Mayank Kejriwal, Peilin Zhou
Social Network Analysis and Mining

[9] Network-theoretic modeling of complex activity using UK online sex advertisements   **Jun. 2020**
Mayank Kejriwal, Yao Gu
Applied Network Science

[8] Network-theoretic information extraction quality assessment in the human trafficking domain   **Jul. 2019**
Mayank Kejriwal, Rahul Kapoor
Applied Network Science

[7] A Pipeline for Rapid Post-Crisis Twitter Data Acquisition, Filtering and Visualization   **Apr. 2019**
Mayank Kejriwal, Yao Gu
MDPI Technologies, Special Issue on Multimedia and Cross-modal Retrieval

[6] myDIG: Personalized Illicit Domain-Specific Knowledge Discovery with No Programming   **Mar. 2019**
Mayank Kejriwal, Pedro Szekely
Future Internet

[5] How do Organizations Publish Semantic Markup? Three Case Studies Using Public Schema.org Crawls   **Jun. 2018**
Daye Nam, **Mayank Kejriwal**
IEEE Computer

[4] Investigative Knowledge Discovery for Combating Illicit Activities   **Feb. 2018**

Mayank Kejriwal, Pedro Szekely, Craig Knoblock
IEEE Intelligent Systems

[3] Knowledge Graphs for Social Good: An Entity-centric Search Engine for the Human Trafficking Domain   **Nov. 2017**
Mayank Kejriwal, Pedro Szekely
IEEE Transactions on Big Data, Special Call on Knowledge Graphs

[2] Scalable Generation of Type Embeddings using the ABox   **Aug. 2017**
Mayank Kejriwal, Pedro Szekely
Open Journal of Semantic Web

[1] An Unsupervised Instance Matcher for Schema-free RDF Data   **Jul. 2015**
Mayank Kejriwal, Daniel P. Miranker
The Journal of Web Semantics

OTHER PEER-REVIEWED PUBLICATIONS (ARCHIVAL CONFERENCES AND NON-ARCHIVAL WORKSHOPS)

[49] An Analytical Approximation of Simplicial Complex Distributions in Communication Networks   **Nov. 2023**
Ke Shen, **Mayank Kejriwal**
The 12th International Conference on Complex Networks and their Applications

[48] A Model and Structural Analysis of Networked Bitcoin Transaction Flows   **Nov. 2023**
Min-Hsueh Chiu, **Mayank Kejriwal**
The 12th International Conference on Complex Networks and their Applications

[47] A structural study of Big Tech firm-switching of inventors in the post-recession era   **Nov. 2023**
Yidan Sun, **Mayank Kejriwal**
Foundations and Applications of Big Data Analytics (FAB), co-held with IEEE ASONAM
Press: USC/ISI research news

[46] Automatic Semantic Typing of Pet E-Commerce Products
Using Crowdsourced Reviews: An Experimental Study   **Nov. 2023**
Xinyu Liu, Tiancheng Sun, Diantian Fu, Zijue Li, Sheng Qian, Ruyue Meng, **Mayank Kejriwal**
The Fifth Edition of the Knowledge Graph and Semantic Web Conference (KGSWC)

[45] Knowledge Graph-based Embedding for Connecting Scholars in Academic Social Networks   **Oct. 2023**
Prasad Calyam, Xiyao Cheng, Yuanxun Zhang, Harsh Joshi and **Mayank Kejriwal**
The 10th IEEE International Data Science and Advanced Analytics (DSAA) Conference

[44] Substructure Discovery in Commonsense Relations Using Graph Representation Learning   **Sep. 2023**
Ke Shen, **Mayank Kejriwal**
The 2023 IntelliSys Conference, held in Amsterdam, The Netherlands

[43] Simulating and Quantifying Inequality in Strategic Agent Networks   **Aug. 2023**
Mayank Kejriwal
10th International Conference on Human Interaction & Emerging Technologies, held in Nice, France
Paper Link

[42] Context-Rich Evaluation of Machine Common Sense   **Jun. 2023**
Mayank Kejriwal, Henrique Santos, Ke Shen, Alice M. Mulvehill and Deborah L. McGuinness
Artificial General Intelligence (AGI) Conference, held in Stockholm, Sweden

[41] Can Language Models be used in Multistep Commonsense Planning Domains?   **Jun. 2023**
Zhisheng Tang, **Mayank Kejriwal**
Artificial General Intelligence (AGI) Conference, held in Stockholm, Sweden

[40] On the Empirical Association between Trade Network Complexity and Global Gross Domestic Product   **Nov. 2022**
Mayank Kejriwal, Yuesheng Luo
The 11th International Conference on Complex Networks and their Applications

[39] Understanding COVID-19 Vaccine Reaction through Comparative Analysis on Twitter   **Jul. 2022**
Yuesheng Luo, **Mayank Kejriwal**
The 2022 Computing Conference, held in London, United Kingdom

[38] A Pedagogical Framework for Understanding the Alignment Between
Classroom Project Evaluations and Real-World Industry Requirements   **Jun. 2022**
Mayank Kejriwal
The 2022 ASEE Annual Conference, held in Minneapolis

[37] Toward Defining a Domain Complexity Measure Across Domains   **Mar. 2022**
Katarina Doctor, Christine Task, Eric Kildebeck, **Mayank Kejriwal,** Lawrence Holder, and Russell Leong
AAAI Spring Symposium on 'Designing Artificial Intelligence for Open Worlds'

[36] Can Scale-free Network Growth with Triad Formation Capture Simplicial Complex
Distributions in Real Communication Networks?   **Feb. 2022**
Mayank Kejriwal, Ke Shen
The 2nd Graphs and More Complex Structures for Learning and Reasoning (GCLR)
workshop held in conjunction with AAAI 2022
Press (selected only): [The Conversation](#), [GCN](#), [Houston Chronicle](#), [phys.org](#)

[35] On the Generalization Abilities of Fine-Tuned Commonsense Language Representation Models   **Dec. 2021**
Ke Shen, **Mayank Kejriwal**
41st British Computer Society Specialist Group on Artificial Intelligence Conference (AI-2021)
Published in [Springer Lecture Notes in Artificial Intelligence](#) (LNAI, volume 13101)
Winner of Best Refereed Technical Paper Award

[34] A Feasibility Study of Open-Source Sentiment Analysis and Text Classification Systems
on Disaster-Specific Social Media Data   **Dec. 2021**
Mayank Kejriwal, Ge Fang and Ying Zhou
IEEE Symposium Series on Computational Intelligence (SSCI), *Data Mining Applications* Track

[33] Empirical Best Practices On Using Product-Specific Schema.org   **Feb. 2021**
Mayank Kejriwal, Ravi Kiran Selvam, Chien-Chun Ni and Nicolas Torzec
Thirty-Third Annual Conference on Innovative Applications of Artificial Intelligence (IAAI)

[32] Locally Constructing Product Taxonomies from Scratch Using Representation Learning   **Dec. 2020**
Mayank Kejriwal, Ravi Kiran Selvam, Chien-Chun Ni and Nicolas Torzec
The 2020 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining

[31] On using Product-Specific Schema. org from Web Data Commons: An Empirical Set of Best Practices   **Aug. 2020**
Ravi Kiran Selvam, **Mayank Kejriwal**
KDD Workshop on Knowledge Graphs and E-Commerce

[30] Concept Drift in Bias and Sensationalism Detection: An Experimental Study
Multi-disciplinary track   **Aug. 2019**
Shuo Zhang, **Mayank Kejriwal**
The 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis
and Mining, held in Vancouver, Canada

[29] Low-supervision urgency detection and transfer in short crisis messages   **Aug. 2019**
Mayank Kejriwal, Peilin Zhou
The 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis
and Mining, held in Vancouver, Canada

[28] Unsupervised Product Entity Resolution using Graph Representation Learning   **Jul. 2019**
Mozhdeh Gheini, **Mayank Kejriwal**
The ACM 2019 SIGIR Workshop on eCommerce, held in Paris, France

[27] GAIA-A Multi-media Multi-lingual Knowledge Extraction and Hypothesis Generation System   **Nov. 2018**
Tongtao Zhang, Ananya Subburathinam , Ge Shi , Lifu Huang , Di Lu , Xiaoman Pan ,

Manling Li , Boliang Zhang, Qingyun Wang , Spencer Whitehead , Heng Ji, Alireza Zareian ,
Hassan Akbari , Brian Chen , Ruiqi Zhong , Steven Shao , Emily Allaway , Shih-Fu Chang ,
Kathleen McKeown, Dongyu Li, Xin Huang, Kexuan Sun, Xujun Peng , Ryan Gabbard ,
Marjorie Freedman , **Mayank Kejriwal** , Ram Nevatia , Pedro Szekely, T.K. Satish Kumar,
Ali Sadeghian , Giacomo Bergami , Sourav Dutta , Miguel Rodriguez,, Daisy Zhe Wang
Text Analysis Conference (TAC) KBP track, 2018

[26] Structured Event Entity Resolution in Humanitarian Domains   **Oct. 2018**
Mayank Kejriwal, Jing Peng, Haotian Zhang and Pedro Szekely
International Semantic Web Conference (Research Track), held in Monterrey, California

[25] P4ML: A Phased Performance-Based Pipeline Planner for   Automated Machine Learning   **Jul. 2018**
Yolanda Gil, Ke-Thia Yao, Varun Ratnakar, Daniel Garijo, Greg Ver Steeg, Pedro Szekely,
Robert Brekelmans, **Mayank Kejriwal**, Fanghao Luo and I-Hui Huang
AutoML Workshop 2018 at ICML, held in Stockholm, Sweden

[24] Domain-specific Insight Graphs   **Apr. 2018**
Pedro Szekely, **Mayank Kejriwal**
International Project track paper at the ACM Web Conference in Lyon, France 2018

[23] A Pipeline for Post-Crisis Twitter Data Acquisition   **Feb. 2018**
Mayank Kejriwal, Yao Gu
Workshop on Social Web in Emergency and Disaster Management (SWDM), co-held with the
ACM Web Search and Data Mining (WSDM) Conference in Los Angeles, California

[22] Always Lurking: Understanding and Mitigating Bias in Online Human Trafficking Detection   **Feb. 2018**
Kyle Hundman, Thamme Gowda, **Mayank Kejriwal** and Benedikt Boecking
AAAI/ACM Conference on AI, Ethics and Society (AIES), 2018, held in New Orleans, Louisiana

[21] FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining   **Dec. 2017**
Mayank Kejriwal, Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely
Workshop on *Learning with Limited Labeled Data* (LLD) at NeurIPS 2017, held in Long Beach, California

[20] Neural Embeddings for Populated Geonames Locations   **Oct. 2017**
Mayank Kejriwal, Pedro Szekely
International Semantic Web Conference (Resource Track), held in Vienna, Austria

[19] An Investigative Search Engine for the Human Trafficking Domain   **Oct. 2017**
Mayank Kejriwal, Pedro Szekely
International Semantic Web Conference (In-Use Track), held in Vienna, Austria

[18] Adaptive Candidate Generation for Scalable Edge-discovery Tasks on Data Graphs   **Aug. 2017**
Mayank Kejriwal
MLG Workshop at ACM KDD, 2017, held in Halifax, Nova Scotia, Canada

[17] Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain   **May 2017**
Mayank Kejriwal
DSMM Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

[16] Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages   **May 2017**
Rahul Kapoor, **Mayank Kejriwal**, Pedro Szekely
GeoRich Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

[15] Supervised Typing of Big Graphs using Semantic Embeddings   **May 2017**
Mayank Kejriwal, Pedro Szekely
Semantic Big Data (SBD) Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

[14] Information Extraction in Illicit Domains   **Apr. 2017**
Mayank Kejriwal, Pedro Szekely
ACM World Wide Web Conference, 2017, held in Perth, Australia

[13] Local, Domain-independent Heuristics for the FEIII Challenge: Lessons and Observations   **Jun. 2016**
Mayank Kejriwal, Daniel P. Miranker
DSMM Workshop at ACM SIGMOD, 2016, held in San Francisco, California

[12] A Pipeline for Extracting and Deduplicating Domain-Specific Knowledge Bases   **Oct. 2015**
Mayank Kejriwal, Qiaoling Liu, Ferosh Jacob and Faizan Javed
Industry track in the IEEE International Conference on Big Data, held in Santa Clara, California

[11] Decision-making Bias in Instance Matching Model Selection   **Oct. 2015**
Mayank Kejriwal, Daniel P. Miranker
The 14th International Semantic Web Conference, held in Bethlehem, Pennsylvania

[10] Sorted Neighborhood for Schema-free RDF Data   **May 2015**
Mayank Kejriwal, Daniel P. Miranker
Winner of best paper award
The 4th Knowledge Discovery and Data Mining meets Linked Open Data workshop,
The 12th European Semantic Web Conference, held in Portoroz, Slovenia

[9] Semi-supervised Instance Matching using Boosted Classifiers   **May 2015**
Mayank Kejriwal, Daniel P. Miranker
The 12th European Semantic Web Conference, held in Portoroz, Slovenia

[8] Entity Resolution in a Big Data Framework   **Jan. 2015**
Mayank Kejriwal
Doctoral consortium, the 29th Conference on Artificial Intelligence (AAAI), held in Austin, TX

[7] Populating Entity Name Systems for Big Data Integration   **Oct. 2014**
Mayank Kejriwal
The 13th International Semantic Web Conference, held in Riva Del Garda, Italy

[6] A Two-Step Blocking Scheme Learner for Scalable Link Discovery   **Oct. 2014**
Mayank Kejriwal and Daniel P. Miranker
The 9th International Workshop on Ontology Matching at the 13th International Semantic Web
Conference, held in Riva Del Garda, Italy

[5] Schema Matching over Relations, Attributes and Data Values   **Jul. 2014**
Aibo Tian, **Mayank Kejriwal** and Daniel P. Miranker
The 26th International Conference on Scientific and Statistical Database Management, held in
Aalborg, Denmark

[4] An Unsupervised Algorithm for Learning Blocking Schemes   **Dec. 2013**
Mayank Kejriwal and Daniel P. Miranker
The 13th IEEE International Conference on Data Mining, held in Dallas, Texas

[3] Extended Scaled Neural Predictor for Improved Branch Prediction   **Aug. 2013**
Zihao Zhou, **Mayank Kejriwal** and Risto Miikkulainen
The IEEE International Conference on Neural Networks, held in Dallas, Texas

[2] A Framework to Access Handwritten Information within Large Digitized Paper Collections   **Oct. 2012**
Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry
The 8th IEEE International Conference on eScience, held in Chicago, Illinois

[1] Digitization and search: A non-traditional use of HPC   **Oct. 2012**
Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry
The 8th IEEE International Conference on eScience, held in Chicago, Illinois

EDITORIALS, LETTERS AND PERSPECTIVES

Special Issue on Artificial Intelligence and Complex System **Oct. 2023**
Mayank Kejriwal
Invited Editorial, MDPI Applied Sciences,
Special Issue on Artificial Intelligence and Complex System

COVID-19 and computational sciences: data variety can be an enabler for good
science—if properly utilized **May 2022**
Mayank Kejriwal
Science-Policy Brief for the Multistakeholder Forum on Science, Technology
and Innovation for the SDGs
Event Link
Article Link

Designing a strong test for measuring true common-sense reasoning **Apr. 2022**
Mayank Kejriwal, Henrique Santos, Alice M. Mulvehill and Deborah L. McGuinness
Nature Machine Intelligence, Comment Article

On Preparing for the Future of Work through Proactively Inclusive Lifelong Learning Frameworks **Feb. 2022**
Mayank Kejriwal
Perspective Article, AAAS Science & Diplomacy,
Special Issue on Emerging Technologies and Science Diplomacy
Perspective Link

Essential Features in a Theory of Context for Enabling Artificial General Intelligence **Dec. 2021**
Mayank Kejriwal
Invited Perspective Article, MDPI Applied Sciences,
Special Issue on Artificial Intelligence and Complex System

Reinforcing Robustness of AI Agents to Open-World Novelty: Challenges and Roadmap **Sep. 2021**
Mayank Kejriwal, Shilpa Thomas
Academia Letters

Using AI and Virtual Reality/Augmented Reality to Deliver Tailored and Effective Jobs Training **Aug. 2021**
Cyrus Hodes, Niki Iliadis and **Mayank Kejriwal**
Policy Whitepaper, Day One Project
Whitepaper Link

Reclaiming my name **Jun. 2021**
Science (Working Life)
Article Link

Applying AI in the Fight Against Modern Slavery Workshop **Jun. 2021**
Computing Community Consortium / Code 8.7 Report
Report Link

Knowledge, semantics and AI for risk and crisis management **2020**
Antonio De Nicola, Hedi Karray, **Mayank Kejriwal** and Nada Matta
Invited Editorial in the *Journal of Contingencies and Crisis Management*
Editorial Link

Crisis Management: Using Artificial Intelligence to help save lives **Dec. 2019**
Article in *Research Outreach, Issue 111*
Article Link

Featured Post on Computing Community Consortium (CCC) Website **Nov. 2019**
Co-LOD: Continuous Space Linked Open Data
Article Link

Co-LOD: Continuous Space Linked Open Data   **Oct. 2019**
Outrageous ideas track
Winner of Blue Sky Ideas award
Mayank Kejriwal, Pedro Szekely
The 2019 International Semantic Web Conference, held in Auckland, New Zealand

PRESS, BLOG AND ABSTRACTS

Interview on human trafficking and DIG   **Oct. 2023**
The Circuit News
YouTube Link

Interview on Artificial General Intelligence and AI for Social Good   **Oct. 2023**
"The ONE'S Changing the WORLD" 1st Future Tech Meets Sustainability Podcast
YouTube Link

On using Fodor's theory of modularity for situating large language models within a
larger artificial general intelligence architecture   **Oct. 2023**
Abstract accepted for oral presentation
4th International Conference on the Mathematics of Neuroscience

A Knowledge Graph-Based Search Engine for Robustly Finding Doctors and Locations
in the Healthcare Domain   **Aug. 2023**
Accepted poster and extended abstract
KDD Southern California Data Science Day, Long Beach
Preprint Link

Putting the Rational Thinking Skills of Language Models to the Test   **May 2023**
USC Viterbi Information Sciences Institute Research News
Article Link
Other links: USC Viterbi news

Are You More Vaccine Hesitant Than A 57-Year-Old?   **May 2023**
USC Viterbi Information Sciences Institute Research News
Article Link

INTERVIEW: Unleashing the Potential of AI   **May 2023**
Folksalert podcast episode featuring Mayank Kejriwal
Podcast Link

Designing Artificial Intelligence for the Long Tail   **May 2023**
Accepted abstract in the Workshop on AI and Analytics for Social Good
Robert H. Smith School of Business, University of Maryland

Don't bet with ChatGPT – study shows language AIs often make irrational decisions   **Apr. 2023**
The Conversation
Article Link
Republished in Gizmodo, NextGov, Lifehacker (Australia), Wyborcza (Poland), MyBroadBand (South Africa)

Quoted in *What will 2072 look like? Recorded dreams and AI friends!*   **Oct. 2022**
Julia Cohen
Article Link

Male-female character ratio in books 4:1, says study   **Sep. 2022**
The Print, National Herald, Free Press Journal, Press Trust of India

Evaluating Language Representation Models on Approximately
Rational Decision Making Problems   **Jul. 2022**
Accepted abstract and presentation in CogSci2022

Live interview on AI and Bias   **Jun. 2022**
Appearance on KABC (ABC7 Los Angeles) live web streaming
Jun. 30, 2022
Video Link

MLOps for Environmental Disaster Relief   **Jun. 2022**
Podcast hosted by Petuum
https://www.youtube.com/watch?v=QYnHZaobHYo

Knowledge Graphs in Media and E-Commerce   **Jun. 2022**
Mayank Kejriwal
INFORMS/CORS, held in Vancouver, Canada

Can we really teach AI common sense?   **May 2022**
Interview on INFORMS *Resoundingly Human* Podcast
Link

Where Does Vaccine Hesitancy Exist? USC AI Researchers Can Predict on the Zip Code-Level, in Real-Time   **May. 2022**
Article on USC Viterbi News
Article Link
Featured in *ACM Tech News* weekly newsletter sent on May 20, 2022

AI study finds that males are represented four times more than females in literature   **Apr. 2022**
Article on USC Viterbi News
Article Link
Other press: The Guardian, Daily Mail, Planeta, BBC, SBS News (Korea), World Economic Forum
10k upvotes and 1.1k comments on book sub-reddit

Analytics software unlocks the benefits of IoT data collection   **Apr. 2022**
Contributed Article on TechTarget
Article Link

Community-Specific Overview of Knowledge Graph Research   **Mar. 2022**
Mayank Kejriwal
Scholarly Community Encyclopedia
Article Link

Productivity Imposterism   **Mar. 2022**
Mayank Kejriwal
Medium blog post

Stop fighting it. Reality television is all set to become the new high art   **Mar. 2022**
Mayank Kejriwal
L.A. Mentary (The Greater Los Angeles Mensa Commentary), Volume LXI No. 3

Portal exclusive: A blueprint for teaching common sense to machines   **Feb. 2022**
Education Times
Article Link

'Information Is Powerful, But Only If We Can Organize It Right' — New AI Potential Boon to Businesses   **Jan. 2022**
Greg Hardesty
USC Viterbi News
Article Link
Featured in *ACM Tech News* weekly newsletter sent on Jan. 24, 2022;
*USC Viterbi Communication*s newsletter sent on Feb. 2, 2022

IoT drives sustainable development and the bottom line   **Nov. 2021**
Mayank Kejriwal
Invited feature in IoT Agenda, TechTarget
Article Link

Matching tweets to ZIP codes can spotlight hot spots of COVID-19 vaccine hesitancy   **Nov. 2021**
Mayank Kejriwal
The Conversation Magazine
Article Link
The Conversation newsletter sent on April 7, 2021
2000+ readers within 48 hours of publication, re-posted in 20+ press outlets

Graph Representation Learning: From Simple to Higher-order Structures   **Nov. 2021**
Invited blog post, Open Data Science Conference (ODSC)
Link

A Global Study of the Impacts of Diversity, Equity and Inclusion on Human Flourishing and Wellbeing   **Oct. 2021**
Included in Grand Challenges in Human Flourishing, Templeton World Charity Foundation public database
Link

Quoted in "AI: Dealing with Advanced Intelligence that is Unpredictable and Inscrutable"   **Oct. 2021**
Article by Dick Weisinger
Article Link

AI and Common Sense   **Sept. 2021**
Learning More Podcast
Link

An AI expert explains why it's hard to give computers something you take for granted: Common sense   **Aug. 2021**
The Conversation
Article Link
Also featured in Big Think, TechXPlore, Code Project Insider Daily Newsletter (August 18, 2021),
HowStuffWorks, Britannica's Forum (August 19, 2021), The Next Web

The world uses one emoji more than all others. Here's why   **Jul. 2021**
Charlotte Hu
Popular Science
Article Link

New York City or Los Angeles? Where you live says a lot about what and when you tweet   **Jul. 2021**
Mayank Kejriwal
The Conversation
Article Link
The Conversation newsletter sent on July 2, 2021
Re-posted on Medium as 'Computational social science has arrived'
San Francisco Times: Article Link

Can AI Stop the Erosion of 7,000 Human Languages?   **Jun. 2021**
Dataethics4all.org
Article Link

How Monopoly is helping create the AI of the future   **May 2021**
World Economic Forum
Article Link

Embrace the unexpected: To Teach AI how to handle new situations, change the rules of the game   **Apr. 2021**
Mayank Kejriwal
The Conversation Magazine
Article Link
The Conversation newsletter sent on April 7, 2021
1600+ readers within 72 hours of publication, re-posted in 20+ press outlets

Social Networks   **Mar. 2021**
Podcast on Data Skeptic

Podcast Link

Mayank Kejriwal recognized for public engagement work   **Mar. 2021**
Article on USC Viterbi News
Article Link

Detecting situational needs from digital messaging in real-time   **Mar. 2021**
Invited discussion article (no. FG-AI4NDM-I-012)
Focus Group on AI for Natural Disaster Management, International Telecommunication Union
Article Link

On Wisdom, Wealth and…Berkshire Hathaway   **Mar. 2021**
Medium Post
Article Link

The Top 5 graph database advantages for enterprises   **Feb. 2021**
News Article in SearchDataManagement
Article Link

Artificial Intelligence needs to be more context-aware   **Feb. 2021**
Medium Post
Mentions: Year of the Graph
Article Link

USC ISI Researcher Uses AI to Combat COVID-19 Under the Microsoft AI for Health Program   **Nov. 2020**
Article on USC Viterbi News
Article Link

Urgent times call for urgent measures   **Oct. 2020**
Article on USC Viterbi News
Article Link

Building and deploying knowledge graphs
Interview on the Data Exchange Podcast   **Oct. 2020**
Podcast Link

Computer scientists tracked sophisticated money networks to learn how rich people hide fortunes offshore
Press article on Fast Company   **Oct. 2020**
Article Link

The secretive networks used to move money offshore
News Release, EurekAlert!   **Sep. 2020**
Article Link

Invited Panelist
DataEthics4All AI Summit   **Sep. 2020**
Website

Panelist
Cambridge Semantics Invited Tweetchat   **Sep. 2020**

Want to Teach An AI Novelty? First, Teach It Monopoly. Then Throw Out the Rules
Article on USC Viterbi News   **Jul. 2020**
Article Link

New Research May Help Identify Trafficking Networks   **Aug. 2020**
Article Link on Information Sciences Institute News
Article Link on USC Viterbi News
Article Link on TechXplore
Article Link on EurekAlert

Innovative technology for natural disasters and other crises   **Jul. 2020**
Article in Open Access Government
Magazine Link
Open Access News   **May 2020**
Article Link

Using AI & Knowledge Graphs to Understand & Historically Document COVID-19   **May 2020**
Establishing Your Empire Podcast
Podcast Link

IEEE Impact Creator   **Apr. 2020**
Interview Link

Understanding and Tackling Social Problems through Networks and AI   **Mar. 2020**
Interview and Podcast in Ai4.io by Jason Jepson
Interview Link

Computing Community Consortium (CCC) Blog   **Nov. 2019**
Great Innovative Idea: Co-LOD: Continuous Space Linked Open Data
Post by Helen Wright
Post Link

Interview   **Oct. 2019**
365 Data Science
Interview Link

Featured Interview   **Aug. 2019**
ISI quarterly newsletter

Interview   **Aug. 2019**
Global Big Data Conference
Link

Measuring without labels: a different approach to information extraction   **Jul. 2019**
SpringerOpen invited blog post
Article Link

Mayank Kejriwal, 2019 Copper Black Award winner   **Jun. 2019**
Press release by Mensa Foundation
Article Link

Ep 50: Artificial Intelligence – Fighting Human Trafficking   **Apr. 2019**
Folksalert podcast episode featuring Mayank Kejriwal
Podcast Link

myDIG: A system for building domain-specific search engines   **Mar. 2019**
Contributed article to encyclopedia.pub
Entry Link

Let's embed everything!   **Feb. 2019**
Featured post on Open Data Science
Article Link

Video Interview on AI for Social Good   **Nov. 2018**
Pioneer Ventures: AI Frontiers
Video Link

Projects featured in SoCal DB Day talk   **Oct. 2018**
Talk by Shahram Ghandeharizadeh (USC)
SoCal DB 2018 Link

Technology for Good: Fighting Human Trafficking with Artificial Intelligence
Invited piece written by Mayank Kejriwal **Aug. 2018**
IVY Magazine
Article Link

Making Waves - ONDA News **Jul. 2018**
Featured on Patron Spotlight

Fighting Human Traffickers
Press feature written by Lori Cameron **Jun. 2018**
IEEE Intelligent Systems
Article Link

Breaking the Cycle of Victimization
Press feature written by Marc Ballon **Apr. 2018**
USC Viterbi Magazine
Article Link

Always Lurking: Understanding and Mitigating Bias in Online Human Trafficking Detection **Feb. 2018**
Kyle Hundman, Thamme Gowda, **Mayank Kejriwal** and Benedikt Boecking
Poster presented at AAAI/ACM Conference on AI, Ethics and Society (AIES), 2018, held in New Orleans, Louisiana

FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining **Dec. 2017**
Mayank Kejriwal, Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely
Poster in Workshop on *Learning with Limited Labeled Data* (LLD) at NIPS 2017, held in Long Beach, California

ISI press release on winning best dissertation award **Aug. 2017**
Article Link

Semi-automatic Data Integration using Karma **Dec. 2017**
Mayank Kejriwal, Daniel Garijo, Yolanda Gil, Daniel Hardesty Lewis, Perry Ivan Quinto Houser,
Craig Knoblock, Scott Dale Peckham, Deana Pennington, Suzanne Pierce, Zachary Stanko
Abstract in American Geophysical Union (AGU) Fall 2017 meeting, New Orleans

Populating a Linked Data Entity Name System **Jun. 2017**
Mayank Kejriwal
Dissertation abstract in AI Matters

Authored piece on Semantic Web published on the AI Topics website **Apr.2017**
Article Link

Authored piece on Games and AI published on the AI Topics website **Apr. 2017**
Article Link

End Human Trafficking Hackathon **Oct. 2016**
Hackathon was featured in *NY Daily News*; served as mentor to students

The Summer of Data Science **Oct. 2015**
Quoted in blog post by Kristin Tolle, Director of Data Science at Microsoft Research

Populating a Linked Data Entity Name System **Aug. 2015**
Mayank Kejriwal, Daniel P. Miranker
Poster at the Heidelberg Laureate Forum, held in Heidelberg, Germany

Unsupervised Instance Matching on Schema-free Linked Data **Aug. 2015**
Mayank Kejriwal, Daniel P. Miranker
Poster at the National Science Foundation Data Science Workshop, held in Seattle, Washington

Minimally Supervised Instance Matching: An Alternate Approach **May 2015**

Mayank Kejriwal, Daniel P. Miranker
Poster and abstract at the 12th European Semantic Web Conference, held in Portoroz, Slovenia

The Math Behind…The Web of Linked Data   **Mar. 2015**
Mayank Kejriwal
Poster for the *SIAM: Math Matters, Apply It!* program

A Sorted Neighborhood Workflow for the Semantic Web   **Jan. 2015**
Mayank Kejriwal and Daniel P. Miranker
Poster and abstract at the 29th Conference on Artificial Intelligence (AAAI)

On Linking Heterogeneous Dataset Collections   **Oct. 2014**
Mayank Kejriwal and Daniel P. Miranker
Poster and abstract at the 13th International Semantic Web Conference, held in Riva Del Garda, Italy

Populating Entity Name Systems for Big Data Integration   **Oct. 2014**
Mayank Kejriwal and Daniel P. Miranker
Doctoral Consortium Poster at the 13th International Semantic Web Conference, held in Riva Del Garda, Italy

An Unsupervised Algorithm for Learning Blocking Schemes   **Dec. 2013**
Mayank Kejriwal and Daniel P. Miranker
Poster at the 13th IEEE International Conference on Data Mining, held in Dallas, Texas

Extended Scaled Neural Predictor for Improved Branch Prediction   **Aug. 2013**
Zihao Zhou, **Mayank Kejriwal** and Risto Miikkulainen
Poster at the IEEE International Conference on Neural Networks, held in Dallas, Texas

Digitization and Search: A Non-Traditional Use of HPC   **Oct. 2012**
Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry
Poster and abstract at the 8th IEEE International Conference on eScience, held in Chicago, Illinois

Toward Free and Searchable Historical Census Images   **Sep. 2011**
Kenton McHenry, Luigi Marini, **Mayank Kejriwal**, Rob Kooper and Peter Bajcsy
 ▪ Published as an article in the Electronic Imaging & Signal Processing section by the
   International Society for Optics and Photonics
   Article Link
 ▪ Published as a technical article in infoDOCKET
   Article Link

PRE-PRINTS AND TECHNICAL REPORTS

Named Entity Resolution in Personal Knowledge Graphs   **Jul. 2023**
Mayank Kejriwal
Preprint: https://arxiv.org/pdf/2307.12173.pdf

A structural study of Big Tech firm-switching of inventors in the post-recession era   **Jul. 2023**
Yidan Sun, **Mayank Kejriwal**
Preprint: https://arxiv.org/abs/2307.07920

A pilot evaluation of ChatGPT and DALL-E 2 on decision making and spatial reasoning   **Feb. 2023**
Zhisheng Tang, **Mayank Kejriwal**
Preprint: https://arxiv.org/abs/2302.09068

On the Empirical Association between Trade Network Complexity and Global Gross Domestic Product   **Nov. 2022**
Mayank Kejriwal, Yuesheng Luo
Preprint: https://arxiv.org/abs/2211.13117

Can Language Representation Models Think in Bets?   **Oct. 2022**
Zhisheng Tang, **Mayank Kejriwal**

Preprint: https://arxiv.org/abs/2210.07519

Understanding Substructures in Commonsense Relations in ConceptNet   **Oct. 2022**
Ke Shen, **Mayank Kejriwal**
Preprint: https://arxiv.org/pdf/2210.01263

Understanding Prior Bias and Choice Paralysis in Transformer-based Language
Representation Models through Four Experimental Probes   **Oct. 2022**
Ke Shen, **Mayank Kejriwal**
Preprint: https://arxiv.org/pdf/2210.01258

Robust Quantification of Gender Disparity in Pre-Modern English Literature using
Natural Language Processing?   **Apr. 2022**
Akarsh Nagaraj, **Mayank Kejriwal**
Preprint: https://arxiv.org/abs/2204.05872

Can Scale-free Network Growth with Triad Formation Capture Simplicial Complex
Distributions in Real Communication Networks?   **Mar. 2022**
Mayank Kejriwal, Ke Shen
Preprint: https://arxiv.org/abs/2203.06491

Understanding COVID-19 Vaccine Reaction through Comparative Analysis on Twitter   **Nov. 2021**
Yuesheng Luo, **Mayank Kejriwal**
Preprint: https://arxiv.org/abs/2111.05823

Using conditional inference to quantify interaction effects of socio-demographic covariates
of US COVID-19 vaccine hesitancy   **Oct. 2021**
Ke Shen, **Mayank Kejriwal**
Preprint: https://www.medrxiv.org/content/10.1101/2021.10.02.21264456v1

Predicting Zip Code-Level Vaccine Hesitancy in US Metropolitan Areas
Using Machine Learning Models on Public Tweets   **Aug. 2021**
Sara Melotte, **Mayank Kejriwal**
Preprint: https://arxiv.org/abs/2108.01699

A Geo-Tagged COVID-19 Twitter Dataset for 10 North American Metropolitan Areas
over a 255-Day Period   **May 2021**
Sara Melotte, **Mayank Kejriwal**
Preprint: https://www.preprints.org/manuscript/202105.0411/v1

Learning Monopoly Gameplay: A Hybrid Model-Free Deep Reinforcement
Learning and Imitation Learning Approach   **Apr. 2021**
Marina Haliem, Trevor Bonjour, Aala Alsalem, Shilpa Thomas, Hongyu Li,
Vaneet Aggarwal, Bharat Bhargava, **Mayank Kejriwal**
Technical Report (arXiv:2103.00683)

COVID-19 vaccine hesitancy is positively associated with affective wellbeing   **Mar. 2021**
Mayank Kejriwal, Ke Shen
Preprint on PsyArXiv: https://doi.org/10.31234/osf.io/nkvhs

Affective Correlates of Metropolitan Food Insecurity and Misery during COVID-19   **Mar. 2021**
Mayank Kejriwal, Ke Shen
Preprint on PsyArXiv: https://doi.org/10.31234/osf.io/6zxfe

A Data-Driven Study of Commonsense Knowledge using the ConceptNet Knowledge Base   **Dec. 2020**
Ke Shen, **Mayank Kejriwal**
Technical Report (arXiv:2011.14084)

Do Fine-tuned Commonsense Language Models Really Generalize?   **Dec. 2020**
Mayank Kejriwal, Ke Shen

Technical Report (arXiv:2011.09159)

An Experimental Study of the Effects of Position Bias on Emotion Cause Extraction   **Jul. 2020**
Jiayuan Ding, **Mayank Kejriwal**
Technical Report (arXiv: 2007.15066)

On using Product-Specific Schema.org from Web Data Commons: An Empirical Set of
Best Practices   **Jul. 2020**
Ravi Kiran Selvam, **Mayank Kejriwal**
Technical Report (arXiv: 2007.13829)

A Pipeline for Post-Crisis Twitter Data Acquisition   **Jan. 2018**
Mayank Kejriwal, Yao Gu
Technical Report (arXiv: 1801.05881)

Unsupervised Hashtag Retrieval and Visualization for Crisis Informatics   **Jan. 2018**
Yao Gu, **Mayank Kejriwal**
Technical Report (arXiv: 1801.05906)

FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining   **Dec. 2017**
Mayank Kejriwal, Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely
Technical Report (arXiv: 1712.03086)

Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain   **Apr. 2017**
Mayank Kejriwal
Technical Report (arXiv:1704.05571)

Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages   **Apr. 2017**
Rahul Kapoor, **Mayank Kejriwal** and Pedro Szekely
Technical Report (arXiv:1704.05569)

Supervised Typing of Big Graphs using Semantic Embeddings   **Mar. 2017**
Mayank Kejriwal and Pedro Szekely
Technical Report (arXiv:1703.07805)

Information Extraction in Illicit Domains   **Mar. 2017**
Mayank Kejriwal and Pedro Szekely
Technical Report (arXiv:1703.03097)

Experience: Type alignment on DBpedia and Freebase   **Aug. 2016**
Mayank Kejriwal and Daniel P. Miranker
Technical Report (arXiv:1608.04442)

Self-contained NoSQL Resources for Cross-Domain RDF   **Aug. 2016**
Mayank Kejriwal and Daniel P. Miranker
Technical Report (arXiv:1608.04437)

On the Complexity of Sorted Neighborhood   **Jan. 2015**
Mayank Kejriwal and Daniel P. Miranker
Technical Report (arXiv:1501.01696)

A DNF Blocking Scheme Learner for Heterogeneous Datasets   **Jan. 2015**
Mayank Kejriwal and Daniel P. Miranker
Technical Report (arXiv:1501.01694)

N-Way Heterogeneous Blocking   **Feb. 2014**
Mayank Kejriwal and Daniel P. Miranker
Regular Technical Report (TR-14-06), University of Texas at Austin

TALKS

Large Language Models and Knowledge Graphs: Friends or Foes?   **Dec. 2023**
Invited honorary keynote talk
AI and its Applications Conference, organized by Institute for Engineering
Research and Publication (IFERP)

Large Language Models and Knowledge Graphs: Friends or Foes?   **Dec. 2023**
Invited keynote talk
ADAPT Convention 2023

Large Language Models and Knowledge Graphs: Friends or Foes?   **Nov. 2023**
Mayank Kejriwal
Invited talk at Knowledge Graph Winter School (held virtually)

Achieving Robust Neurosymbolic Reasoning in High-Impact Domains through
Knowledge Graphs and Large Language Models   **Sept. 2023**
Invited keynote talk as MizzouForward faculty candidate
University of Missouri at Columbia

Knowledge Graphs and Large Language Models: Friends or Foes?   **Aug. 2023**
Invited talk, Fall Seminar Series
Missouri University of Science & Technology

The anatomy of a publication   **Jul. 2023**
REU student seminar, Information Sciences Institute

Knowledge Graphs and Large Language Models: Friends or Foes?   **Jul. 2023**
Invited talk, Fidelity AI Center

Evaluating AGI: Are we Ready?   **Jun. 2023**
Invited talk, Workshop on Safety, Trust & Artificial Generalized Intelligence (STAGI 2023)

A mathematical model of social utility under variable conditions of innovation and copying   **Jun. 2023**
Mayank Kejriwal
Presented in 'Diffusion' session in the 15th Annual Conference of the International Network of
Analytical Sociologists (INAS), Princeton University, New Jersey

Knowledge Graphs: A Unified Framework for Data-Intensive Collective Problem-Solving   **May 2023**
Mayank Kejriwal
Invited Plenary speaker, Special Session on The Use of Computational Tools
and New Augmented Methods in Networked Collective Problem Solving,
AMS 2023 Spring Western Sectional Meeting, California State University, Fresno

How to conjecture it? A panel discussion on the integration of tools and methods of intelligent   **May 2023**
computer mathematics for augmenting learning and discovery
Invited panelists: Prof. Agnes Tuska (Dept. of Math., CSU Fresno, moderator),
Prof. Andras Juhasz (Mathematical Inst., Oxford), Prof. Alex Kontorovich (Dept. of Math, Rutgers University),
R. A. Prof. **Mayank Kejriwal** (USC Viterbi), and Dr. Andras Benedek, (emeritus, Inst. of
Philosophy, RHC ELKH)
Special Session on The Use of Computational Tools
and New Augmented Methods in Networked Collective Problem Solving,
AMS 2023 Spring Western Sectional Meeting, California State University, Fresno

Knowledge Graphs in an Era of Large Language Models: An Application-Based Perspective   **Apr. 2023**
Mayank Kejriwal
Invited virtual lecture at University of North Texas

Open-world learning at the edge: the next stage of machine intelligence   **Mar. 2023**
Mayank Kejriwal

Enabling Edge Computing Summit

Artificial Intelligence: Shaping the Landscape of the Future **Mar. 2023**
Mayank Kejriwal, Faith 'Aya' Umoh, Todd Terrazas, Claire Ralph (moderator)
Invited Panelist, Los Angeles World Affairs Council & Town Hall High School Program

Designing Artificial Intelligence for Open Worlds **Mar. 2023**
Mayank Kejriwal
Lightning Talk at AAAS 2023 Annual Meeting

Delineating the Shadows of Faust and Freud in Harry Potter **Feb. 2023**
Mayank Kejriwal
44th Annual Southwest Popular/American Culture Association Conference

From Bag-of-Words to Deep Learning: A Four-Generation Overview of Text Models and Applications **Jan. 2023**
Mayank Kejriwal
Invited live-stream talk at AI Planet
Link

Knowledge Graphs versus Ontologies: A Practical Perspective **Nov. 2022**
Mayank Kejriwal
Invited opening talk at Knowledge Graph Winter School (held virtually)

Domain-Specific Knowledge Graph Construction: Opportunities and Challenges **Nov. 2022**
Mayank Kejriwal
Invited keynote talk at IEEE ICDM 2022 International Workshop on Knowledge Graphs

Knowledge Graphs and COVID-19: Challenges, Opportunities and Successes **Oct. 2022**
Mayank Kejriwal
Flash Talk at INFORMS Annual Meeting, held in Indianapolis

Constructing, Storing and Accessing Knowledge Graphs: A Software Engineering Perspective **Oct. 2022**
Mayank Kejriwal
Invited virtual lecture at University of North Texas

Artificial Intelligence and Future of Computing **Aug. 2022**
Mayank Kejriwal
Invited talk in INFER professional forecasting meeting, held virtually

Knowledge Graphs in Media and E-Commerce **Jun. 2022**
Mayank Kejriwal
Contributed talk at INFORMS/CORS, held in Vancouver, Canada

A Pedagogical Framework for Understanding the Alignment Between
Classroom Project Evaluations and Real-World Industry Requirements **Jun. 2022**
Mayank Kejriwal
Oral presentation of accepted paper in *Multi-Disciplinary Best Paper* session
at the 2022 ASEE Annual Conference, held in Minneapolis

Complex Systems **Feb. 2022**
Mayank Kejriwal
Invited talk at Stanford Online High School
YouTube Link

Knowledge Graphs: Search, Personalization, and Analytics **Jan. 2022**
Mayank Kejriwal
Invited talk at Netflix

A Feasibility Study of Open-Source Sentiment Analysis and Text Classification Systems
on Disaster-Specific Social Media Data **Dec. 2021**

Mayank Kejriwal, Ge Fang and Ying Zhou
Oral presentation at the IEEE Symposium Series on Computational Intelligence (SSCI)

Graph Representation Learning: From Simple to Higher-Order Structures   **Nov. 2021**
Mayank Kejriwal
Invited talk at ODSC West 2021

Domain-Specific Knowledge Graph Construction for Enabling Seamless AI Applications   **Sep. 2021**
in the Environmental Sciences
Oral presentation, Session on Seamless AI Systems
3rd NOAA Workshop on Leveraging AI in Environmental Sciences

Artificial General Intelligence   **Sep. 2021**
Invited talk at SAP Inspiration Sessions Community

Entity Resolution on Web-scale Knowledge Graphs   **Apr. 2021**
Invited guest lecture at Stanford CS520 seminar course on knowledge graphs

Detecting situational needs from digital messaging in real-time   **Mar. 2021**
Invited Talk at 1st Virtual Meeting of the ITU Focus Group on AI for Natural Disaster Management

Understanding COVID-19 through Social Media and Survey Data   **Mar. 2021**
Internal Talk at Microsoft

Information Extraction and Entity Resolution for Knowledge Graphs   **Mar. 2021**
Invited Talk at Kharon

Generating Novelty in Open-World Multi-Agent Environments   **Dec. 2020**
NeurIPS Conference

Knowledge Graphs for Search and Enterprise   **Dec. 2020**
Invited virtual talk at Kaiser Permanente

Locally Constructing Product Taxonomies from Scratch Using Representation Learning   **Dec. 2020**
IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining

Knowledge Graphs: The Frontier   **Dec. 2020**
Knowledge Connexions 2020

AI, Knowledge Graphs and COVID-19: The Journey so Far   **Oct. 2020**
Invited 'Hot Topic' Speaker, IDEAS Global AI Conference

Knowledge Graphs and COVID-19: An Overview   **Oct. 2020**
Guest Speaker, ISE 651 (Epstein Seminar)

Knowledge Graphs: The Who, What, Where, When, Why, How   **Apr. 2020**
Invited webinar, IDEAS

Using Artificial Intelligence to assist law enforcement to crack down on human trafficking   **Feb. 2020**
Keynote talk at the Telesign and Data Skeptic Meetup in Marina del Rey, California

Fighting Child Sex Trafficking with Artificial Intelligence   **Jan. 2020**
Keston talk at the ISI institute-wide retreat in Redondo Beach, California

Fighting Human Trafficking with Technology   **Dec. 2019**
Invited talk at the National University for Juridical Sciences (NUJS) in Kolkata, India

Knowledge Graphs: An Accessible and Applied Overview   **Nov. 2019**
Invited talk at Purdue University in West Lafayette, Indiana

EMI: Embed, Measure and Iterate   **Nov. 2019**
Invited talk at Open Data Science Conference (ODSC-West) in San Francisco, California

Artificial Intelligence   **Nov. 2019**
Invited outreach talk at the California Institution for Men in Chino, California

Is a Knowledge Graph right for me?   **Oct. 2019**
Invited talk at the IDEAS Southern California Conference held in Los Angeles, California

AI, Networks and Society   **Sep. 2019**
Invited Micro-seminar at the USC Annenberg School of Communication

Executive Briefing: An Age of Embeddings   **Sep. 2019**
Invited talk at O'Reilly AI Conference in San Jose, California

Low-supervision urgency detection and transfer in short crisis messages   **Aug. 2019**
The IEEE/ACM ASONAM Conference in Vancouver, Canada

Concept Drift in Bias and Sensationalism Detection: An Experimental Study   **Aug. 2019**
The IEEE/ACM ASONAM Conference in Vancouver, Canada

Why should I build a knowledge graph?   **Aug. 2019**
Invited talk at the Global Big Data Conference, San Jose

Data Science Education   **May 2019**
Invited talk at the Data Science Conference, Boston

Applying Noisy Knowledge Graphs to Real Problems   **May 2019**
Invited talk at the DataWorks Summit, Washington, DC

Let's embed everything!   **May 2019**
Invited talk at ODSC East, Boston

Fighting Human Trafficking with AI   **Jan. 2019**
Invited talk at Texas AI Summit

Let's embed everything!   **Jan. 2019**
Invited talk at Data Day Texas

Behavioral Interview Seminar for Graduate Students   **Nov. 2018**
USC Information Sciences Institute

Applying Noisy Knowledge Graphs to Real Problems   **Nov. 2018**
Invited talk at Home Depot in Atlanta, Georgia

Knowledge Graphs: A Lingua Franca for Humans and Machines?   **Nov. 2018**
Invited workshop talk at Open Data Science Conference (ODSC-West) in San Francisco, California

Structured Event Entity Resolution in Humanitarian Domains   **Oct. 2018**
The 17th International Semantic Web Conference, held in Monterrey, California

Fighting Human Trafficking with AI   **Sep. 2018**
Invited talk at O'Reilly AI Conference in San Francisco, California

Technology-assisted Investigative Search: A Case Study from an Illicit Domain   **Apr. 2018**
Talk at the ACM CHI Conference on Human Factors in Computing Systems in Montreal, Canada

Building Knowledge Graphs for Social Good   **Mar. 2018**
Spring Seminar Series, USC Center for Artificial Intelligence in Society (CAIS)

The Many Face(t)s of Knowledge Graphs: In Vivo vs. In Vitro **Feb. 2018**
Research Breakfast Seminar Series, USC Information Sciences Institute

Building Advanced Search and Analytics Engines over Arbitrary Domains...Without a Data Scientist **Jan. 2018**
Invited speaker at Data Day Texas

Building Domain-specific Search Engines for Investigative Decision Support **Jan. 2018**
Invited seminar presentation: USC Department of Industrial and Systems Engineering

On the Future of the Semantic Web **Dec. 2017**
Invited presentation at the Digital Turn in Comparative Constitutionalism Workshop, held in Hannover, Germany

Neural Embeddings for Populated Geonames Locations **Oct. 2017**
International Semantic Web Conference, held in Vienna, Austria

An Investigative Search Engine for the Human Trafficking Domain **Oct. 2017**
International Semantic Web Conference, held in Vienna, Austria

From Noisy Information Extraction to Rich Information Retrieval in Unusual Domains **Jun. 2017**
NLP Seminar, USC Information Sciences Institute

Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain **May 2017**
DSMM Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages **May 2017**
GeoRich Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Populating a Linked Data Entity Name System **Apr. 2016**
Ph.D. Final Defense, University of Texas at Austin
Committee: Daniel P. Miranker (chair), Raymond Mooney, Joydeep Ghosh, Risto Miikkulainen and
Eric Price

Populating a Linked Data Entity Name System **Apr. 2016**
AI Seminar: Interview Talk
USC Information Sciences Institute

Decision-making Bias in Instance Matching Model Selection **Oct. 2015**
The 14th International Semantic Web Conference, held in Bethlehem, Pennsylvania

Sorted Neighborhood for Schema-free RDF Data **May 2015**
The 4th Knowledge Discovery and Data Mining meets Linked Open Data workshop,
The 12th European Semantic Web Conference, held in Portoroz, Slovenia

Semi-supervised Instance Matching using Boosted Classifiers **May 2015**
The 12th European Semantic Web Conference, held in Portoroz, Slovenia

Entity Resolution in a Big Data Framework **Jan. 2015**
Doctoral consortium, the 29th Conference on Artificial Intelligence (AAAI)

Populating a Linked Data-based Entity Name System **Nov. 2014**
Ph.D. Oral Proposal, University of Texas at Austin
Committee: Daniel P. Miranker (chair), Raymond Mooney, Joydeep Ghosh, Risto Miikkulainen and
Eric Price

Populating Entity Name Systems for Big Data Integration **Oct. 2014**
The 13th International Semantic Web Conference, held in Riva Del Garda, Italy

A Two-Step Blocking Scheme Learner for Scalable Link Discovery **Oct. 2014**
The 9th International Workshop on Ontology Matching at the 13th International Semantic Web
Conference, held in Riva Del Garda, Italy

Populating an Entity Name System   **Mar. 2014**
Research Preparation Exam, University of Texas at Austin
Committee: Daniel P. Miranker (chair), Greg Plaxton and Pradeep Ravikumar

An Unsupervised Algorithm for Learning Blocking Schemes   **Dec. 2013**
The 13th IEEE International Conference on Data Mining, held in Dallas, Texas

Machine Learning Techniques for Offline Handwriting Transcription   **Dec. 2012**
Undergraduate honors thesis presentation at the University of Illinois at Urbana-Champaign