

MAYANK KEJRIWAL

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CURRENT POSITION

Computer Scientist Since June 2016
Information Sciences Institute

Research Assistant Professor Since April 2018
Industrial and Systems Engineering
University of Southern California (USC) Viterbi School of Engineering

EDUCATION

University of Texas at Austin
M.Sc. and Ph.D. in Computer Science Aug. 2012-May 2016
Current 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
Key Courses: Natural Language Processing, Information Retrieval, Neural Networks, Semantic Web, Algorithms, Graphical Models

University of London External Programmes (Lead School: *London School of Economics*)
B.Sc. in Banking and Finance, Upper Second Class Honors Aug. 2013-Aug. 2015
Key Courses: Principles of Banking and Finance, Principles of Accounting, Valuation and Securities Analysis, Elements of Econometrics, Financial Intermediation, Investment Management, Corporate Finance

University of Illinois at Urbana-Champaign
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
Upper-level Courses: Artificial Intelligence, Scientific Computation, Machine Learning, Computer Graphics, Theory of Computation, Computer Organization and Design, Digital Systems Laboratory, Analog Signal Processing, Solid State Electronic Devices, Computer Systems Engineering, Senior Research Project, Applied Linear Algebra, Probability with Engineering Applications, Differential Equations, Calculus III, Quantum Physics I, Classical Mechanics I and II, Electromagnetic Fields, Thermal and Statistical Physics, Classical Physics Lab

National University of Singapore
Study Abroad Jan. 2012-May 2012
Key Courses: Introduction to Economics, Introduction to Japanese Studies, and Japan in the 20th Century

CURRENT PROJECTS

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

ELICIT: A System for Extracting and Organizing Causal Information Aug. 2017-Current
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 March 2017-Current
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.

THOR: Text-enabled Humanitarian Operations in Real-time

June 2016-Current

Funded under DARPA Low Resource Languages for Emergent Incidents (LORELEI)

Key Responsibilities: Building robust entity linking and network analysis systems to provide situational awareness to customers in the humanitarian assistance and disaster relief (HADR) domain.

DIG: Domain-specific Insight Graphs

June 2016-April 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.

SCHOLARSHIPS, AWARDS AND TRAVEL GRANTS

AI2 Key Scientific Challenge Winner	2017
Semantic Web Science Association (SWSA) 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
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
Dean's List	2009-2012

TEACHING

University of Southern California Lecturer <i>CSCI 548: Information Integration (Fall 2016)</i>	Aug. 2016-Dec. 2016
University of Texas at Austin Teaching Assistant <i>Contemporary Issues in Computer Science (Spring 2014)</i> <i>Automata Theory (Spring 2013)</i> <i>Data Management (Falls 2013, 2012)</i> <i>Artificial Intelligence (Fall 2012)</i>	Aug. 2012-June 2014

EXPERIENCE

Information Sciences Institute, USC Computer Scientist <i>Information Integration group</i>	June 2016-Current
Information Sciences Institute, USC AI Seminar Coordinator <i>Information Integration group</i>	Jan. 2017-Jan. 2018
Capsenta, Inc. Semantic Web Consultant <i>Worked on integrating advanced ontology matching solutions in the company's current products</i>	May 2016-June 2016
University of Texas at Austin Graduate Research Assistant <i>Research group of Daniel P. Miranker</i>	June 2014-May 2016

CareerBuilder LLC, Norcross, Georgia Data Scientist Intern <i>Worked in the R&D team on the Recruitment Edge and Company Normalization products</i>	May 2015-Aug. 2015
Rackspace, the Open Cloud Company, San Antonio, Texas Summer Intern <i>Worked on the Big Data team helping with a new Hadoop-based product roll-out</i>	May 2013-July 2013
National Center for Supercomputing Applications, Urbana, Illinois Undergraduate Research Intern <i>Developed scalable machine learning techniques to automate digital handwriting transcription of terabyte-level US census data</i>	May 2011-Aug. 2011
University of Illinois at Urbana-Champaign Camp Counselor <i>Designed STEM exercises for high-school students, and supervised them thereof</i>	May 2010-Aug. 2010
University of Illinois at Urbana-Champaign Freshman Research Intern <i>Helped to automate biomedical image processing tasks using the ImageJ software tool</i>	May 2010-Aug. 2010

SKILLS

- **Specialties** – Information Integration, Natural Language Processing, Semantic Web, Data Mining, Machine Learning
- **Languages**– Python , Java, C/C++, MATLAB, SQL, SPARQL, Latex
- **Systems, Tools and Packages**– PyCharm, Amazon Web Services, SciKit Learn, t-SNE, NetworkX, TensorFlow, Microsoft Azure, Eclipse IDE, Weka, LibSVM, SecondString, FEBRL, Lucene, Mallet

LANGUAGES

- **Native** – English, Hindi
- **Fluent** – Bengali

PROFESSIONAL SERVICE

- **Reviewer**, Information, 2018
- **Reviewer**, Scientific Programming, 2018
- **Program Committee Member**, International Workshop on Semantic Web for Social Good, ISWC 2018
- **FigShare Ambassador**, 2018
- **Program Committee Member (Research; Posters and demos)**, International Semantic Web Conference (ISWC), 2018
- **Co-Chair**, workshop on Deep Learning for Knowledge Graphs and Semantic Technologies, to be held at the Extended Semantic Web Conference (ESWC) in Crete , Greece 2018
- **Guest Editorial Board**, Special Issue on Representation Learning for the Semantic Web, Journal of Web Semantics (2018)
- **Co-Chair**, BigNet workshop, to be held at the ACM The Web Conference (formerly known as ACM WWW) in Lyon, France 2018
- **Guest Editorial Board**, Special Issue on Semantic Deep Learning, Semantic Web Journal (2018)
- **Judge**, Virtual Poster Showcase at the American Geophysical Union Fall Meeting, 2017
- **Program Committee Member**, 1st Workshop on Knowledge Base Construction, Reasoning and Mining (KBCOM), co-held with ACM WSDM Conference 2018
- **Reviewer**, Semantic Web Journal (Nov. 2017)
- **Reviewer**, ACM Transactions on the Web (Nov. 2017)
- **Program Committee Member**, ACM The Web Conference (TheWebConf; former ACM World Wide Web), 2018
- **Reviewer**, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2017
- **Co-Chair**, Hybrid Statistical Semantic Understanding and Emerging Semantics Workshop (HSSUES) half-day workshop, to be held at International Semantic Web Conference (ISWC), 2017
- **Program Committee Member**, Data-driven Discovery of Models (D3M) half-day workshop, to be held at International Conference on Data Mining (ICDM), 2017
- **Program Committee Member**, Broadening Participation in Data Mining (BPDm) workshop, to be held at KDD 2017
- **Program Committee Member (Research; Posters and demos)**, International Semantic Web Conference (ISWC), 2017
- **Sub-reviewer**, ACM World Wide Web Conference (WWW), 2017
- **Program Committee Member (Posters and demos)**, International Semantic Web Conference (ISWC), 2016
- **Program Committee Member**, International Joint Conference on Artificial Intelligence (IJCAI), 2016
- **Reviewer**, ACM Journal of Data and Information Quality (JDIQ), 2016
- **Sub-reviewer**, International Joint Conference on Artificial Intelligence (IJCAI), 2015

- **Sub-reviewer**, Very Large Databases (VLDB), 2013

OUTREACH

- **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)

HONORS SOCIETIES

- **Phi Kappa Phi**
- **Tau Beta Pi**
- **Alpha Lambda Delta**
- **Phi Eta Sigma**

HACKATHONS

- **End Human Trafficking Hackathon**, Cornell (2016); *featured in [NY Daily News](#)*
- **Kaggle**, Web competitions (2014-2016)
- **CareerBuilder Summer Hackathon**, CareerBuilder (2015)
- **dataHackUT**, University of Texas at Austin (2014)

PROFESSIONAL SOCIETIES

- **Association for the Advancement of Artificial Intelligence (AAAI)**
- **American Association for the Advancement of Science (AAAS)**
- **Association for Computing Machinery (ACM)**
- **Institute of Electrical and Electronics Engineers (IEEE)**
- **Society for Industrial and Applied Mathematics (SIAM)**
- **American Geophysical Union (AGU)**

ALUMNI NETWORKS

- **Heidelberg Laureate Forum/German Scholars Organization e.V. (2017)**
- **University of Texas (2016)**
- **University of London (2015)**
- **University of Illinois (2012)**

INVITED PARTICIPANT

- **National Science Foundation Data Science Workshop (2015)**: an NSF-funded workshop attended by Ph.D. level data scientists from across the United States
- **Heidelberg Laureate Forum (2015)**: Participant, one of among 200 globally selected Math and CS students

RESEARCH MENTOR

- **Yao Gu (THOR)**
- **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)**
- **Jiayuan Ding (DIG)**
- **I-Hui Huang (DSBox)**
- **Fanghao Luo (DSBox)**
- **Pratik Kabara (THOR)**

TUTORIALS, CASE STUDIES AND DEMOS

- Demo: THOR: Text-enabled Humanitarian Operations in Real-time* **April 2018**
Mayank Kejriwal, Daniel Gilley, Pedro Szekely, Jill Crisman
 The ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018
- Social Media Analysis for Situation Awareness during Crises* **April 2018**
 Gregoire Burel, **Mayank Kejriwal**, Prashant Khare, Pedro Szekely
 Tutorial at the ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018
- Technology-assisted Investigative Search: A Case Study from an Illicit Domain* **April 2018**
Mayank Kejriwal, Pedro Szekely
 Case Study at the ACM CHI Conference on Human Factors in Computing Systems in Montreal, Canada 2018
- Demo: Unsupervised Hashtag Retrieval and Visualization for Crisis Informatics* **February 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
- Demo: Constructing Domain-specific Search Engines with No Programming* **February 2018**
Mayank Kejriwal, Pedro Szekely
 AAAI Conference, held in New Orleans
Nominated for Best Demo
- Demo: A Semantic Search Engine for Investigating Human Trafficking* **October 2017**
Mayank Kejriwal, Pedro Szekely
 International Semantic Web Conference (ISWC), held in Vienna, Austria
- Constructing Domain-specific Knowledge Graphs (KGC)* **October 2017**
Mayank Kejriwal, Craig Knoblock, and Pedro Szekely
 Full-day tutorial at International Semantic Web Conference (ISWC), 2017, held in Vienna, Austria
- Data Mining in Unusual Domains with Information-rich Knowledge Graph Construction, Inference and Search* **August 2017**
Mayank Kejriwal and Pedro Szekely
 Conventional Tutorial at KDD, 2017, held in Halifax, Canada
- Information Integration* **July 2017**
Mayank Kejriwal
 Tutorial at IS-GEO Summer Institute, 2017 held in Austin, TX
- BOOKS**
- Knowledge Graphs: Theory, Techniques and Applications* **2018**
Mayank Kejriwal, Craig Knoblock, and Pedro Szekely
 MIT Press
- Domain-specific Knowledge Graph Construction* **2018**
Mayank Kejriwal
 Springer Brief
- Joint Proceedings of the International Workshops on Hybrid Statistical Semantic Understanding and Emerging Semantics, and Semantic Statistics co-located with 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/>
- 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

PEER-REVIEWED PUBLICATIONS

- Domain-specific Insight Graphs* **April 2018**
 Pedro Szekely, **Mayank Kejriwal**
 International Project track paper at the ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018
- A Pipeline for Post-Crisis Twitter Data Acquisition* **February 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
- Investigative Knowledge Discovery for Combating Illicit Activities* **February 2018**
Mayank Kejriwal, Pedro Szekely, Craig Knoblock
 IEEE Intelligent Systems
- Always Lurking: Understanding and Mitigating Bias in Online Human Trafficking Detection* **February 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
- FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining* **December 2017**
Mayank Kejriwal, Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely
 Workshop on *Learning with Limited Labeled Data* (LLD) at NIPS 2017, held in Long Beach, California
- Knowledge Graphs for Social Good: An Entity-centric Search Engine for the Human Trafficking Domain* **November 2017**
Mayank Kejriwal, Pedro Szekely
 IEEE Transactions on Big Data, Special Call on Knowledge Graphs
- Neural Embeddings for Populated Geonames Locations* **October 2017**
Mayank Kejriwal, Pedro Szekely
 International Semantic Web Conference (Resource Track), held in Vienna, Austria
- An Investigative Search Engine for the Human Trafficking Domain* **October 2017**
Mayank Kejriwal, Pedro Szekely
 International Semantic Web Conference (In-Use Track), held in Vienna, Austria
- Scalable Generation of Type Embeddings using the ABox* **August 2017**
Mayank Kejriwal, Pedro Szekely
 Open Journal of Semantic Web
- Adaptive Candidate Generation for Scalable Edge-discovery Tasks on Data Graphs* **August 2017**
Mayank Kejriwal
 MLG Workshop at ACM KDD, 2017, held in Halifax, Nova Scotia, Canada
- 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
- 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
- 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
- Information Extraction in Illicit Domains* **April 2017**
Mayank Kejriwal, Pedro Szekely
 ACM World Wide Web Conference, 2017, held in Perth, Australia

- Local, Domain-independent Heuristics for the FEIII Challenge: Lessons and Observations* **June 2016**
Mayank Kejriwal, Daniel P. Miranker
DSMM Workshop at ACM SIGMOD, 2016, held in San Francisco, California
- A Pipeline for Extracting and Deduplicating Domain-Specific Knowledge Bases* **October 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
- Decision-making Bias in Instance Matching Model Selection* **October 2015**
Mayank Kejriwal, Daniel P. Miranker
The 14th International Semantic Web Conference, held in Bethlehem, Pennsylvania
- An Unsupervised Instance Matcher for Schema-free RDF Data* **July 2015**
Mayank Kejriwal, Daniel P. Miranker
The Journal of Web Semantics
- 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
- Semi-supervised Instance Matching using Boosted Classifiers* **May 2015**
Mayank Kejriwal, Daniel P. Miranker
The 12th European Semantic Web Conference, held in Portoroz, Slovenia
- Entity Resolution in a Big Data Framework* **January 2015**
Mayank Kejriwal
Doctoral consortium, the 29th Conference on Artificial Intelligence (AAAI), held in Austin, TX
- Populating Entity Name Systems for Big Data Integration* **October 2014**
Mayank Kejriwal
The 13th International Semantic Web Conference, held in Riva Del Garda, Italy
- A Two-Step Blocking Scheme Learner for Scalable Link Discovery* **October 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
- Schema Matching over Relations, Attributes and Data Values* **July 2014**
Aibo Tian, **Mayank Kejriwal** and Daniel P. Miranker
The 26th International Conference on Scientific and Statistical Database Management, held in Aalborg, Denmark
- An Unsupervised Algorithm for Learning Blocking Schemes* **December 2013**
Mayank Kejriwal and Daniel P. Miranker
The 13th IEEE International Conference on Data Mining, held in Dallas, Texas
- Extended Scaled Neural Predictor for Improved Branch Prediction* **August 2013**
Zihao Zhou, **Mayank Kejriwal** and Risto Miikkulainen
The IEEE International Conference on Neural Networks, held in Dallas, Texas
- A Framework to Access Handwritten Information within Large Digitized Paper Collections* **October 2012**
Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry
The 8th IEEE International Conference on eScience, held in Chicago, Illinois
- Digitization and search: A non-traditional use of HPC* **October 2012**
Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry
The 8th IEEE International Conference on eScience, held in Chicago, Illinois

ABSTRACTS, POSTERS, NEWSLETTERS AND PRESS

- Always Lurking: Understanding and Mitigating Bias in Online Human Trafficking Detection* **February 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* **December 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* **August 2017**
<https://www.isi.edu/news/story/301>
- Semi-automatic Data Integration using Karma* **December 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* **June 2017**
Mayank Kejriwal
 Dissertation abstract in AI Matters
- Authored piece on Semantic Web published on the AI Topics website* **April 2017**
<https://aitopics.org/class/Technology/IT/Communications/Web/Semantic%20Web>
- Authored piece on Games and AI published on the AI Topics website* **April 2017**
<https://aitopics.org/class/Technology/IT/AI/Games>
- End Human Trafficking Hackathon* **October 2016**
 Hackathon was featured in [NY Daily News](#); served as mentor to students
- The Summer of Data Science* **October 2015**
 Quoted in blog post by Kristin Tolle, Director of Data Science at Microsoft Research
- Populating a Linked Data Entity Name System* **August 2015**
Mayank Kejriwal, Daniel P. Miranker
 Poster at the Heidelberg Laureate Forum, held in Heidelberg, Germany
- Unsupervised Instance Matching on Schema-free Linked Data* **August 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* **March 2015**
Mayank Kejriwal
 Poster for the *SIAM: Math Matters, Apply It!* program
- A Sorted Neighborhood Workflow for the Semantic Web* **January 2015**
Mayank Kejriwal and Daniel P. Miranker
 Poster and abstract at the 29th Conference on Artificial Intelligence (AAAI)
- On Linking Heterogeneous Dataset Collections* **October 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* **October 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* **December 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* **August 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* **October 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* **September 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
 - Published as a technical article in infoDOCKET

TECHNICAL REPORTS

- A Pipeline for Post-Crisis Twitter Data Acquisition* **January 2018**
Mayank Kejriwal, Yao Gu
 Technical Report (arXiv: 1801.05881)
- Unsupervised Hashtag Retrieval and Visualization for Crisis Informatics* **January 2018**
 Yao Gu, **Mayank Kejriwal**
 Technical Report (arXiv: 1801.05906)
- FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining* **December 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* **April 2017**
Mayank Kejriwal
 Technical Report (arXiv:1704.05571)
- Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages* **April 2017**
 Rahul Kapoor, **Mayank Kejriwal** and Pedro Szekely
 Technical Report (arXiv:1704.05569)
- Supervised Typing of Big Graphs using Semantic Embeddings* **March 2017**
Mayank Kejriwal and Pedro Szekely
 Technical Report (arXiv:1703.07805)
- Information Extraction in Illicit Domains* **March 2017**
Mayank Kejriwal and Pedro Szekely
 Technical Report (arXiv:1703.03097)
- Experience: Type alignment on DBpedia and Freebase* **August 2016**
Mayank Kejriwal and Daniel P. Miranker
 Technical Report (arXiv:1608.04442)
- Self-contained NoSQL Resources for Cross-Domain RDF* **August 2016**
Mayank Kejriwal and Daniel P. Miranker
 Technical Report (arXiv:1608.04437)
- On the Complexity of Sorted Neighborhood* **January 2015**
Mayank Kejriwal and Daniel P. Miranker
 Technical Report (arXiv:1501.01696)

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

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

TALKS

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

Building Knowledge Graphs for Social Good **March 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 **February 2018**
 Research Breakfast Seminar Series, USC Information Sciences Institute

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

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

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

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

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

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

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 **April 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 **April 2016**
 AI Seminar: Interview Talk
 Information Sciences Institute, USC

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

Decision-making Bias in Instance Matching Model Selection **October 2015**
 The 14th International Semantic Web Conference, to be 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
The 12th European Semantic Web Conference, held in Portoroz, Slovenia

May 2015

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

January 2015

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

November 2014

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

October 2014

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

October 2014

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

March 2014

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

December 2013

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

December 2012