

## MAYANK KEJRIWAL

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## CURRENT POSITION

**Computer Scientist**  
**AI Seminar Coordinator**  
Information Sciences Institute  
University of Southern California (USC) Viterbi School of Engineering

Since June 2016  
2017

## EDUCATION

University of Texas at Austin  
**M.Sc. and Ph.D. in Computer Science**  
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

Aug. 2012-May 2016

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

Aug. 2013-Aug. 2015

University of Illinois at Urbana-Champaign  
**B.Sc. in Computer Engineering, Highest Honors**  
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

Aug. 2009-Aug. 2012

National University of Singapore  
**Study Abroad**  
**Key Courses:** Introduction to Economics, Introduction to Japanese Studies, and Japan in the 20<sup>th</sup> Century

Jan. 2012-May 2012

## CURRENT PROJECTS

**SAGE: Synergistic Anticipation of Geopolitical Events**  
*Funded under IARPA Hybrid Forecasting Competition (HFC)*

August 2017-Current

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

August 2017-Current

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

March 2017-Current

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.

**DIG: Domain-specific Insight Graphs**  
*Funded under DARPA MEMEX*

June 2016-Current

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.

**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.

**SCHOLARSHIPS, AWARDS AND TRAVEL GRANTS**

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**

Aug. 2016-December 2016

*CSCI 548: Information Integration (Fall 2016)*

University of Texas at Austin

**Teaching Assistant**

Aug. 2012-June 2014

*Contemporary Issues in Computer Science (Spring 2014)**Automata Theory (Spring 2013)**Data Management (Falls 2013, 2012)**Artificial Intelligence (Fall 2012)***EXPERIENCE**

Information Sciences Institute, USC

**Computer Scientist**

June 2016-Current

*Information Integration group*

Capsenta, Inc.

**Semantic Web Consultant**

May 2016-June 2016

*Worked on integrating advanced ontology matching solutions in the company's current products*

University of Texas at Austin

**Graduate Research Assistant**

June 2014-May 2016

*Research group of 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-July 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*

**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**

- **Guest Editorial Board**, Special Issue on Representation Learning for the Semantic Web, Journal of Web Semantics
- **Co-Chair**, Latent Semantics for the Web (LSW) half-day workshop, to be held at the ACM Web Conference (formerly known as ACM WWW) in Lyon , France 2018
- **Guest Editorial Board**, Special Issue on Semantic Deep Learning, Semantic Web Journal
- **Reviewer**, Semantic Web Journal
- **Reviewer**, ACM Transactions on the Web
- **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)
- **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)**
- **International Neural Network Society (INNS)**
- **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

- **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 AND DEMOS

<i>Constructing Domain-specific Search Engines with No Programming</i> <b>Mayank Kejriwal</b> , Pedro Szekely AAAI Conference, held in New Orleans <b>Nominated for Best Demo</b>	<b>February 2018</b>
<i>A Semantic Search Engine for Investigating Human Trafficking</i> <b>Mayank Kejriwal</b> , Pedro Szekely International Semantic Web Conference (Demo), held in Vienna, Austria	<b>October 2017</b>
<i>Constructing Domain-specific Knowledge Graphs (KGC)</i> <b>Mayank Kejriwal</b> , Craig Knoblock, and Pedro Szekely Full-day tutorial at International Semantic Web Conference (ISWC), 2017, held in Vienna, Austria	<b>October 2017</b>
<i>Data Mining in Unusual Domains with Information-rich Knowledge Graph Construction, Inference and Search</i> <b>Mayank Kejriwal</b> and Pedro Szekely Conventional Tutorial at KDD, 2017, held in Halifax, Canada	<b>August 2017</b>
<i>Information Integration</i> <b>Mayank Kejriwal</b> Tutorial at IS-GEO Summer Institute, 2017 held in Austin, TX	<b>July 2017</b>

#### BOOKS

*Knowledge Graphs: Theory, Techniques and Applications*  
**Mayank Kejriwal**, Craig Knoblock, and Pedro Szekely  
 MIT Press

2018

*Joint Proceedings of the International Workshops on Hybrid Statistical Semantic Understanding and Emerging Semantics, and Semantic Statistics co-located with 16<sup>th</sup> 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*  
**Mayank Kejriwal**  
 IOS Press, Studies in the Semantic Web Series  
 ISBN 978-3-89838-717-0 2017

2017

#### PEER-REVIEWED PUBLICATIONS

*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

*Investigative Knowledge Discovery for Combating Illicit Activities*

To appear

**Mayank Kejriwal**, Pedro Szekely, Craig Knoblock  
 IEEE Intelligent Systems Magazine (To Appear)

*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 14<sup>th</sup> 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 4<sup>th</sup> Knowledge Discovery and Data Mining meets Linked Open Data workshop,  
 The 12<sup>th</sup> European Semantic Web Conference, held in Portoroz, Slovenia
- Semi-supervised Instance Matching using Boosted Classifiers* **May 2015**  
**Mayank Kejriwal**, Daniel P. Miranker  
 The 12<sup>th</sup> European Semantic Web Conference, held in Portoroz, Slovenia
- Entity Resolution in a Big Data Framework* **January 2015**  
**Mayank Kejriwal**  
 Doctoral consortium, the 29<sup>th</sup> Conference on Artificial Intelligence (AAAI), held in Austin, TX
- Populating Entity Name Systems for Big Data Integration* **October 2014**  
**Mayank Kejriwal**  
 The 13<sup>th</sup> 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 9<sup>th</sup> International Workshop on Ontology Matching at the 13<sup>th</sup> 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 26<sup>th</sup> 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 13<sup>th</sup> 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 8<sup>th</sup> 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 8<sup>th</sup> IEEE International Conference on eScience, held in Chicago, Illinois

## ABSTRACTS, POSTERS AND PRESS

*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 12<sup>th</sup> 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 29<sup>th</sup> Conference on Artificial Intelligence (AAAI)

*On Linking Heterogeneous Dataset Collections*

October 2014

**Mayank Kejriwal** and Daniel P. Miranker

Poster and abstract at the 13<sup>th</sup> 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 13<sup>th</sup> 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 13<sup>th</sup> 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 8<sup>th</sup> 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

*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

*On the Future of the Semantic Web*

**December 2017**

Invited presentation at the Digital Turn in Comparative Constitutionalism Workshop, held in Hannover, Germany



<i>Neural Embeddings for Populated Geonames Locations</i> International Semantic Web Conference, held in Vienna, Austria	<b>October 2017</b>
<i>An Investigative Search Engine for the Human Trafficking Domain</i> International Semantic Web Conference, held in Vienna, Austria	<b>October 2017</b>
<i>From Noisy Information Extraction to Rich Information Retrieval in Unusual Domains</i> NLP Seminar Information Sciences Institute, USC	<b>June 2017</b>
<i>Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain</i> DSMM Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois	<b>May 2017</b>
<i>Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages</i> GeoRich Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois	<b>May 2017</b>
<i>Populating a Linked Data Entity Name System</i> Ph.D. Final Defense, University of Texas at Austin Committee: Daniel P. Miranker (chair), Raymond Mooney, Joydeep Ghosh, Risto Miikkulainen and Eric Price	<b>April 2016</b>
<i>Populating a Linked Data Entity Name System</i> AI Seminar: Interview Talk Information Sciences Institute, USC	<b>April 2016</b>
<i>Decision-making Bias in Instance Matching Model Selection</i> The 14 <sup>th</sup> International Semantic Web Conference, to be held in Bethlehem, Pennsylvania	<b>October 2015</b>
<i>Decision-making Bias in Instance Matching Model Selection</i> The 14 <sup>th</sup> International Semantic Web Conference, to be held in Bethlehem, Pennsylvania	<b>October 2015</b>
<i>Sorted Neighborhood for Schema-free RDF Data</i> The 4 <sup>th</sup> Knowledge Discovery and Data Mining meets Linked Open Data workshop, The 12 <sup>th</sup> European Semantic Web Conference, held in Portoroz, Slovenia	<b>May 2015</b>
<i>Semi-supervised Instance Matching using Boosted Classifiers</i> The 12 <sup>th</sup> European Semantic Web Conference, held in Portoroz, Slovenia	<b>May 2015</b>
<i>Entity Resolution in a Big Data Framework</i> Doctoral consortium, the 29 <sup>th</sup> Conference on Artificial Intelligence (AAAI)	<b>January 2015</b>
<i>Populating a Linked Data-based Entity Name System</i> Ph.D. Oral Proposal, University of Texas at Austin Committee: Daniel P. Miranker (chair), Raymond Mooney, Joydeep Ghosh, Risto Miikkulainen and Eric Price	<b>November 2014</b>
<i>Populating Entity Name Systems for Big Data Integration</i> The 13 <sup>th</sup> International Semantic Web Conference, held in Riva Del Garda, Italy	<b>October 2014</b>
<i>A Two-Step Blocking Scheme Learner for Scalable Link Discovery</i> The 9 <sup>th</sup> International Workshop on Ontology Matching at the 13 <sup>th</sup> International Semantic Web Conference, held in Riva Del Garda, Italy	<b>October 2014</b>
<i>Populating an Entity Name System</i> Research Preparation Exam, University of Texas at Austin Committee: Daniel P. Miranker (chair), Greg Plaxton and Pradeep Ravikumar	<b>March 2014</b>
<i>An Unsupervised Algorithm for Learning Blocking Schemes</i> The 13 <sup>th</sup> IEEE International Conference on Data Mining, held in Dallas, Texas	<b>December 2013</b>

*Machine Learning Techniques for Offline Handwriting Transcription*

**December 2012**

Undergraduate honors thesis presentation at the University of Illinois at Urbana-Champaign