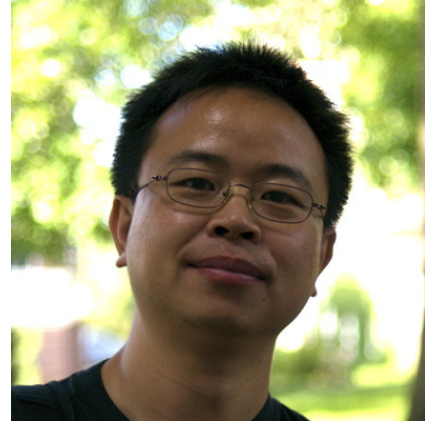


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Bio: Li Ding is a staff engineer at the Qualcomm Technologies, Inc. His current research is focused on mobile computing, Semantic Web, linked open government data, knowledge representation, semantic search, knowledge management systems, fusing structured information and text on the Web, privacy, provenance and trust. He is a former research scientist in the Tetherless World Constellation at Rensselaer Polytechnic Institute, and a former Kodak postdoctoral fellow in the Knowledge Systems, Artificial Intelligence Laboratory (KSL) at Stanford University. He holds PhD degree from University of Maryland Baltimore County and MS, BS degrees from Peking University. Being an early adopter of the Semantic Web, he has published over 70 refereed papers and received over 1600 citations (source: Google Scholar). He is current or past program committee member of international conferences including WWW, ISWC, AAI and CIKM.

Research Interests: Mobile Computing, Social Semantic Web, Linked Data, Linked Open Government Data, Semantic Web, Ontology, Provenance, Privacy, Semantic Search, Knowledge Management Systems, Data Preservation,

Education

Ph.D. in Computer Science, May, 2006

Department of Computer Science and Electrical Engineering, University of Maryland Baltimore County

Thesis: *Enhancing Semantic Web Data Access* (Advisor: Dr. Tim Finin)

M.S. in Computer Science, June, 2001

Department of Computer Science and Technology, Peking University

Thesis: *An Open Spatial Information Interoperation Framework in the Semantic Web* (Advisor: Prof. Zhuoqun Xu)

B.S. in Computer Science, June, 1998

Department of Computer Science and Technology, Peking University

Higher Education Experience

- Staff Engineer (2011/08 - present) Qualcomm Technologies, Inc., San Diego, US
- Research Scientist (2008/04 - 2011/08) Tetherless World Constellation, Computer Science Department, Rensselaer Polytechnic Institute (RPI), Troy, NY, USA
- Postdoctoral Research Associate (2007/04 - 2008/03) Tetherless World Constellation, Computer Science Department, Rensselaer Polytechnic Institute (RPI), Troy, NY, USA
- Kodak Postdoctoral Fellow (2006/11 - 2007/03) Knowledge Systems, AI Laboratory (KSL), Department of Computer Science, Stanford University, Stanford, CA, USA
- Postdoctoral Research Associate (2006/09 - 2006/10) Knowledge Systems, AI Laboratory (KSL), Department of Computer Science, Stanford University, Stanford, CA, USA
- Research Associate (2006/05 - 2006/07) eBiquity Group, Department of Computer Science and Electrical Engineering, University of Maryland Baltimore County, Baltimore, MD, USA
- Research Assistant (2002/09 - 2006/05) eBiquity Group, Department of Computer Science and Electrical Engineering, University of Maryland Baltimore County, Baltimore, MD, USA
- Research Assistant (1997/03 - 2001/06) Spatial Information Group, Department of Computer Science and Technology, Peking University, Beijing, P.R.China

Publications

- Total Citations: 1700+. H-index: 19. (Source: Google Scholar, July 2011)
- Total refereed publications: 93

Refereed Journal Articles

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6. Lina Zhou and Li Ding and Tim Finin, *How is the Semantic Web evolving? A dynamic social network perspective*, Computers in Human Behavior, 27 (4), pp. 1294--1302, July 2011. [[publisher link](#)]
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14. Honglei Zeng and Maher Alhossaini and Li Ding and Richard Fikes and Deborah L. McGuinness, *Computing Trust from Revision History*, in Proceedings of the 4th International Conference on Privacy, Security and Trust (PST), October 2006. [[download link](#)] [[publisher link](#)]
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17. Li Ding and Rong Pan and Tim Finin and Anupam Joshi and Yun Peng and Pranam Kolari, *Finding and Ranking Knowledge on the Semantic Web*, in Proceedings of the 4th International Semantic Web Conference (ISWC'05), November 2005. [[download link](#)] [[publisher link](#)]
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21. Youyong Zou and Tim Finin and Li Ding and Harry Chen and Rong Pan, *Using Semantic web technology in Multi-Agent systems: a case study in the TAGA Trading agent environment*, in Proceeding of the 5th International Conference on Electronic Commerce (ICEC), pp. 95--101, 2003. [[download link](#)] [[publisher link](#)]

Refereed Natural Science and Life Science Conference Papers

1. Paul Courtney and Abdul R. Shaikh and Noshir Contractor and Deborah McGuinness and Li Ding and Erik M. Augustson and Kelly Blake and Glen D. Morgan and Richard Moser and Gordon Willis and Bradford W. Hesse, *Consumer Health Portal: An Informatics Tool for Translation and Visualization of Complex, Evidence-Based Population Health Data for Cancer Prevention and Control*, in Proceedings of the 138th APHA Annual Meeting, 2010. [[publisher link](#)]
2. Li Ding and Jie Bao and Deborah L. McGuinness, *Knowledge Provenance in Semantic Wikis*, in American Geophysical Union Fall Meeting, 2008. abstract #IN22A-05, 2008.
3. Deborah L. McGuinness and Peter Fox and Paulo Pinheiro da Silva and Stephan Zednik and Nicholas Del Rio and Li Ding and Patrick West and Cynthia Chang, *Annotating and embedding provenance in science data repositories to enable next generation science applications*, in American Geophysical Union Fall Meeting, 2008 abstract #IN11C-1052, 2008.

Refereed Workshop Papers

1. James P. McCusker and Timothy Lebo and Li Ding and Cynthia Chang and Paulo Pinheiro da Silva and Deborah L. McGuinness, *Where did you hear that? Information and the Sources They Come From*, in Proceedings of the First International Workshop on Linked Science 2011, 2011.
2. Jie Bao and Graham Rong and Xian Li and Li Ding, *Representing Financial Reports on the Semantic Web: - A Faithful Translation from XBRL to OWL*, in Proceedings of the International Symposium on Semantic Web Rules (RuleML2010), pp. 144-152, 2010. [[publisher link](#)]
3. Li Ding and Jie Bao and James Michaelis and Jun Zhao and Deborah L. McGuinness, *Reflections on Provenance Ontology Encodings*, in Proceedings of the 3rd International Provenance and Annotation Workshop(IPAW2010), 2010.
4. Geoff Sutcliffe and Cynthia Chang and Li Ding and Deborah McGuinness and Paulo Pinheiro da Silva, *Different Proofs are Good Proofs*, in Proceedings of the

- IJCAR 2010 Workshop on Evaluation Methods for Solvers and Quality Metrics for Solutions (EMSQMS) , 2010. [[PDF](#)]
5. Li Ding and Dominic Difranzo and Alvaro Graves and James Michaelis and Xian Li and Deborah L. McGuinness and Jim Hendler, *Data-gov Wiki: Towards Linking Government Data*, in Proceedings of the AAAI 2010 Spring Symposium on Linked Data Meets Artificial Intelligence, 2010. [[PDF](#)] [[publisher link](#)]
 6. K. Krasnow Waterman and Deborah McGuinness and Li Ding, *Selective Privacy in a Web-based World: Challenges of Representing and Inferring Context*, in Proceedings of the AAAI 2010 Spring Symposium on Intelligent Information Privacy Management , 2010. [[PDF](#)] [[publisher link](#)]
 7. Jie Bao and Li Ding and Deborah L. McGuinness, *Semantic History: Towards Modeling and Publishing Changes of Online Semantic Data*, in Proceedings of the 2nd Social Data on the Web workshop (SDoW2009), October 2009. [[PDF](#)] [[publisher link](#)]
 8. James R. Michaelis and Li Ding and Zhenning Shangguan and Stephan Zednik and Rui Huang and Paulo Pinheiro da Silva and Nicholas Del Rio and Deborah L. McGuinness, *Towards Usable and Interoperable Workflow Provenance: Empirical Case Studies Using PML*, in Proceedings of the First International Workshop on the role of Semantic Web in Provenance Management, October 2009. [[PDF](#)] [[publisher link](#)]
 9. Jie Bao and Li Ding and James A. Hendler, *Collective Cognition with Semantic MediaWiki: Lessons and Experiences*, in Proceedings of the 1st ITA Workshop on Network-Enabled Cognition, (extended abstract), 2009. [[PDF](#)] [[publisher link](#)]
 10. James R. Michaelis and Li Ding and Deborah L. McGuinness, *Towards the Explanation of Workflows*, in Proceedings of the IJCAI 2009 Workshop on Explanation Aware Computing (ExaCt), July 2009. [[download link](#)] [[publisher link](#)]
 11. Jiao Tao and Li Ding and Jie Bao and Deborah McGuinness, *Characterizing and Detecting Integrity Issues in OWL Instance Data*, in Proceedings of the 5th International Workshop on OWL: Experiences and Directions (OWLED2008EU), Oct 2008. [[publisher link](#)]
 12. Paulo Pinheiro da Silva and Geoff Sutcliffe and Cynthia Chang and Li Ding and Nick del Rio and Deborah McGuinness, *Presenting TSTP Proofs with Inference Web Tools*, in Proceedings of IJCAR '08 Workshop on Practical Aspects of Automated Reasoning (PAAR-2008), August 2008. [[PDF](#)] [[publisher link](#)]
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 14. Peter Fox and Deborah L. McGuinness and Jose Garcia and Stephan Zednik and Li Ding, *Semantic Provenance for Image Data Processing*, in Proceedings of 2008 Geoinformatics Conference , June 2008. [[publisher link](#)]
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18. Deborah L. McGuinness and Li Ding and Alyssa Glass and Cynthia Chang and Honglei Zeng and Vasco Furtado, *Explanation Interfaces for the Semantic Web: Issues and Models*, in Proceedings of the 3rd International Semantic Web User Interaction Workshop, November 2006. [[download link](#)] [[publisher link](#)]
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20. Joel Sachs and Cynthia Parr and Andriy Parafiyuk and Rong Pan and Lushan Han and Li Ding and Tim Finin and Allan Hollender and David Wang, *Using the Semantic Web to Support Ecoinformatics*, in Proceedings of the AAI 2006 Fall Symposium on the Semantic Web for Collaborative Knowledge Acquisition, October 2006. [[download link](#)] [[publisher link](#)]
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 13. Li Ding and Jiao Tao and Deborah L. McGuinness, *An Initial Investigation on Evaluating Semantic Web Instance Data*, in Proceedings of the 17th International World Wide Web conference (WWW2008), (poster), April 2008. [[PDF](#)] [[publisher link](#)]
 14. Cynthia Parr and Andriy Parafiyuk and Joel Sachs and Rong Pan and Lushan Han and Li Ding and Tim Finin and David Wang, *Using the Semantic Web to Integrate Ecoinformatics Resources*, in Proceedings of the 21st AAI, (intelligent systems demo), July 2006. [[download link](#)] [[publisher link](#)]
 15. Cynthia Parr and Andriy Parafiyuk and Joel Sachs and Li Ding and Sandor Dornbush and Tim Finin and David Wang and Allan Hollender, *Integrating Ecoinformatics Resources on the Semantic Web*, in Proceedings of the 15th International World Wide Web Conference (WWW2006), (poster), May 2006. [[download link](#)] [[publisher link](#)]
 16. Tim Finin and Li Ding and Rong Pan and Anupam Joshi and Pranam Kolari and Akshay Java and Yun Peng, *Swoogle: Searching for knowledge on the Semantic Web*, in Proceedings of the 20th AAI, (intelligent systems demo), July 2005. [[download link](#)] [[publisher link](#)]
 17. Li Ding and Tim Finin, *Boosting Semantic Web Data Access Using Swoogle*, in Proceedings of the 20th AAI, (student abstract), July 2005. [[PDF](#)] [[publisher link](#)]
 18. Li Ding, *On Boosting Semantic Web Data Access*, in Proceedings of the 20th AAI, (presented in AAI/SIGART Doctoral Consortium), July 2005. [[PDF](#)] [[publisher link](#)]
 19. Li Ding and Tim Finin and Yun Peng and Anupam Joshi and Paulo Pinheiro~da~Silva and Deborah L. McGuinness, *Tracking RDF Graph Provenance using RDF Molecules*, in Proceedings of the 4th International Semantic Web Conference (poster/demo session), Extended version available as UMBC TR-CS-05-06 and Stanford KSL-05-06, 2005. [[download link](#)]

Theses

1. Li Ding, *Enhancing Semantic Web Data Access*, PhD Thesis, University of Maryland Baltimore County, April 2006. [[download link](#)]
2. Li Ding, *An Open Spatial Information Interoperation Framework in the Semantic Web*, Master's Thesis, Peking University, (in Chinese), June 2001. [[PDF](#)] [[publisher link](#)]

Non-Refereed Manuscripts

1. Lushan Han and Tim Finin and Yelena Yesha and Robin Salkeld and Justin Martineau and Li Ding and Anupam Joshi, *Finding Appropriate Semantic Web*

- Ontology Terms from Words*, Technical Report ,University of Maryland Baltimore County, May 2009. [[download link](#)]
2. Ankesh Khandelwal and Li Ding and Lalana Kagal, *AIR Language Tutorial*, Technical Report TWTR-2009-06 ,RPI Tetherless World Constellation, May 2009. [[download link](#)]
 3. Lushan Han and Li Ding and Rong Pan and Tim Finin, *Swoogle's Metadata about the Semantic Web*, Technical Report ,University of Maryland Baltimore County, May 2006. [[download link](#)]
 4. Li Ding and Tim Finin, *Weaving the Web of Belief into the Semantic Web*, 2004. [[download link](#)]
 5. Pranam Kolar and Li Ding and Lalana Kagal and Shashidhara Ganjugunte and Anupam Joshi and Tim Finin, *Enhancing P3P Framework through Policies and Trust*, Technical Report TR-04-13 ,University of Maryland Baltimore County, 2004. [[download link](#)]
 6. Li Ding and Yongmei Shi and Zhongli Ding and Rong Pan and Tim Finin, *UMBCTAC: A Balanced Bidding Agent*, Technical Report TR-02-15 ,University of Maryland Baltimore County, 2002. [[download link](#)]

Talks

1. Li Ding and Jim Hendler and Deborah L. McGuinness, *Linked Open Government Data: What's Next?*, SemTech 2011, San Francisco, CA, June 7, 2011.
2. Gary Katz and Stephen Buxton and Li Ding, *Querying Tuples in an XML Store and SPARQL to XQuery Translation*, SemTech 2011, San Francisco, CA, June 7, 2011.
3. Li Ding, *Semantic Wiki and Social Webtop*, presented at Institute of Software, Chinese Academy of Sciences (ISCAS), Beijing, China, Nov 12, 2010.
4. Li Ding, *data.gov and the data-gov project at RPI*, presented at Linked Data for eGovernment - ISWC 2010 Tutorial, Shanghai, China, Nov 8, 2010.
5. Li Ding, Jim Hendler and Deborah L. McGuinness, *Semantic Web*, presented at US/India Information Technology Workshop, Tinton Falls, NJ, Sep 1, 2010.
6. Li Ding, *Putting Government Data in Citizen's Hand*, presented at ICIS Workshop on Integrating, Representing, and Reasoning over Human Knowledge, Snowbird, UT, Aug 2010.
7. Li Ding, Deborah L. McGuinness and Jim Hendler, *Mash-up of Linked Government Data from http://data.gov*, SemTech 2010, San Francisco, CA, Jun 24, 2010.
8. Li Ding, *Linked Justifications: Provenance Aware Data Integration on Linked Data*, presented at School of Library and Information Science, Indiana University, Bloomington, IN, Nov 2, 2009.
9. Li Ding, *The Future of the Semantic Web*, presented at IBM Research China, Beijing, China, Nov 5, 2008.
10. Li Ding, *Towards Web-Scale Computing on the Semantic Web*, presented at Institute of Computing Technology, Chinese Academy of Sciences (also presented at Peking University and Tsinghua University), Beijing, China, Nov 7, 2008.
11. Li Ding, Jie Bao, Jim Hendler and Deborah L. McGuinness, *Semantic Wiki @RPI*, Presented at DIG group, MIT, Boston, MA, October 3, 2008.

12. Deborah McGuinness and Li Ding, *Explanation in GILA Phase II*, presented at Integrated Learning PI Meeting, Washington DC., January 15, 2008.
13. Li Ding, *Enhancing Web-scale Semantic Web Data Access*, presented at Stanford Logic Group, Stanford University, Stanford, CA, November 15, 2006.
14. Li Ding, Deborah L. McGuinness, Tim Finin and Anupam Joshi, *Semantic Web Technologies: A Tutorial*, presented at Kodak Research Laboratories, Rochester, NY, July 18, 2006.

Teaching

- Fall 2010, [Y0240261: Web Science](#) -- Tsinghua University -- Instructor
- Fall 2008, [CSCI 6966: Advanced Semantic Web](#) -- Rensselaer Polytechnic Institute (RPI) -- Instructor(co-teach with Jim Hendler)
- Summer 2002, CMSC 491B Special Topics in Computer Science Data and Network Security -- University of Maryland Baltimore County -- Teaching Assistant
- Spring 2002, CMSC641 Design and Analysis of Algorithms -- University of Maryland Baltimore County -- Teaching Assistant
- Fall 2001, [CMSC211: Assembly Language Programming](#) -- University of Maryland Baltimore County -- Teaching Assistant
- Fall 1998, Java Programming -- Peking University -- Teaching Assistant

Honors and Awards

- Triplification Challenge Winner in I-SEMANTICS 2011 (open government data track), 2011
- Second prize in Semantic Web Challenge Open Track(14 international competitors), 2010
- Kodak postdoctoral fellowship, 2006
- Best paper nominee in the 16th International World Wide Web Conference, 2006
- Selected by AAAI/SIGART Doctoral Consortium, 2005
- Best Student Entry Award in Agentcities Technology Competition, 2003
- Peking University Graduate Research Prize, 2001
- Wu-Si Fellowship (Peking University), 2000

In the News

- 2010-12-10, Rensselaer : [New Application Allows Scientists Easy Access to Important Government Data](#)
- 2010-11-16, ABC News : [Just How 'Transparent' Is the Obama White House? Scientists Try to Help](#)
- 2010-11-15, New York Times : [Sorting Through the Government Data Explosion](#)
- 2010-05-21, White House Blog : [Data.gov: Pretty Advanced for a One-Year-Old](#)
- 2010-05-18, Government Computer News : [How researchers enhanced Data.gov using semantic technology](#)

- 2009-11-09, Government Computer News : [How the Semantic Web would work](#)
- 2009-08-10, ZDNET Blog : [Moving Data.gov towards the Semantic Web](#)
- 2009-04-13, Search Engine Journal : [9 Semantic Search Engines That Will Change the World of Search](#)
- 2008-06-09, AIP Matters : [Books of the future: Dickinson goes digital](#)
- 2007-08-13, Search Engine Journal : [Swoogle: An Engine for the Semantic Web](#)
- 2006-05-24, BBC : [Smart sites to power semantic web](#)
- 2006-02-04, Wikipedia : [Swoogle](#)

Professional Service

Conference and Workshop Chair

- Metadata Chair, The 12th International Semantic Web Conference (ISWC'13), 2013
- Metadata Chair, The 11th International Semantic Web Conference (ISWC'12), 2012
- Program Chair, The 4th Chinese Semantic Web Symposium, 2010
- Publicity Chair, The 3rd International Provenance and Annotation Workshop, 2010
- Co-Chair, AAAI 2009 Spring Symposium on Social Semantic Web: Where Web 2.0 Meets Web 3.0, 2009
- Publicity Chair, The 7th International Semantic Web Conference (ISWC'08), 2008
- Co-Chair, The 2nd International Semantic Web Policy Workshop, 2006

Conference and Workshop Program Committee Member

- The 22nd International World Wide Web conference (WWW2012), 2013
- The 21st International World Wide Web conference (WWW2012), 2012
- WWW 2012 Workshop on Linked Data on the Web, 2012
- The 10th International Semantic Web Conference (ISWC'11), 2011
- The Twenty-Fifth Conference on Artificial Intelligence (AAAI-11), 2011
- WWW 2011 Workshop on Linked Data on the Web, 2011
- ISWC workshop: the 1st International Workshop on Ontologies come of Age in the Semantic Web, 2011
- The 19th International World Wide Web conference (WWW2010), 2010
- The 24th AAAI Conference on Artificial Intelligence (AAAI'10), 2010
- The 19th ACM International Conference on Information and Knowledge Management (CIKM'10), 2010
- IJCAR 2010 Workshop on Evaluation Methods for Solvers and Quality Metrics for Solutions, 2010
- ESWC 2010 Workshop on Ontology Repositories and Editors for the Semantic Web, 2010
- WWW 2010 Workshop on Linked Data on the Web, 2010
- The 2nd International Symposium on Data, Privacy, and E-Commerce, 2010
- AAAI Spring Symposium on Linked Data Meets Artificial Intelligence, 2010
- The 21st International Joint Conferences on Artificial Intelligence (IJCAI'09), 2009

- The 8th International Semantic Web Conference (ISWC'09), 2009
- The 18th ACM International Conference on Information and Knowledge Management (CIKM'09), 2009
- The 8th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'09), 2009
- The 3rd Chinese Semantic Web Symposium, 2009
- ISWC 2009 Workshop on Social Data on the Web, 2009
- International Workshop on Computational Social Networks, 2009
- ISWC Workshop on Semantics for the Rest of Us -- Variants of Semantic Web Languages in the Real World, 2009
- The 17th International World Wide Web conference (WWW2008), 2008
- The 17th ACM International Conference on Information and Knowledge Management (CIKM'08), 2008
- The 4th International Workshop on Scalable Semantic Web knowledge Base Systems, 2008
- ISWC 2008 Workshop on Social Data on the Web, 2008
- The 1st International Workshop on Data Semantics in Social Computing Systems, 2008
- The 2nd IEEE International Conference on Semantic Computing, 2008
- WWW 2008 Workshop on Social Web Search and Mining, 2008
- AAAI 2008 Spring Symposium on Semantic Scientific Knowledge Integration, 2008
- The 16th International World Wide Web conference (WWW2007), 2007
- The 6th International Semantic Web Conference (ISWC'07), 2007
- ISWC 2007 Workshop on Privacy Enforcement and Accountability with Semantics, 2007
- IJCAI 2007 Workshop on Semantic Web for Collaborative Knowledge Acquisition, 2007
- AAAI 2006 Fall Symposium on Semantic Web for Collaborative Knowledge Acquisition, 2006
- Canadian Semantic Web Working Symposium, 2006

Journal Reviewer

- AI Magazine
- International Journal of Human-Computer Studies
- Future Generation Computer Systems
- IEEE Transactions on Knowledge and Data Engineering
- Journal of Computer Science and Technology
- ACM Computing Surveys
- Distributed and Parallel Databases
- Data and Knowledge Engineering
- Knowledge and Information Systems
- IEEE Intelligent Systems
- Journal of Web Semantics
- Concurrency and Computation: Practice and Experience

- International Journal of Semantic Web and Information Systems

Student Advisement - Thesis Committee

- Ph.D. dissertation committee member, Lushan Han, University of Maryland, Baltimore County,
- Ph.D. dissertation committee member, Yu-Wei Sung, University of Maryland, Baltimore County,

Student Advisement - Mentor

- Jiao Tao (RPI, Ph.D. student)
- Dominic DiFranzo (RPI, Ph.D. student)
- Xian Li (RPI, Ph.D. student)
- James Michaelis (RPI, Ph.D. student)
- Zhenning Shangguan (RPI, Ph.D. student)
- Jin Zheng (RPI, Ph.D. student)
- Johanna Flores (RPI, Master's student)
- Pratyus Patnaik (Stanford University, Master's student)
- Adam Bell (RPI, Undergraduate student)
- Peter Coons (RPI, Undergraduate student)

Other Services

- NSF Panelist, Information and Intelligent Systems Division, National Science Foundation, 2010
- Member, Association for the Advancement of Artificial Intelligence(AAAI), 2005-now

Projects

Sponsored Projects

- [PopSciGrid Portal \(Phase II\)](#) [NIH] -- lead research on integration and visualization of health information for cancer prevention and control
- Networking and Information Extraction [KAUST] -- lead research on social semantic web based knowledge management.
- Knowledge Acquisition for Human Terrain (KAHT) [DARPA] -- lead design of social semantic web infrastructure for human study.
- End to End Semantic Accountability (E2ESA) [IARPA] -- lead formal analysis of AIR policy language.
- General Integrated Learning Architecture (GILA) [DARPA] -- lead design of GILA inter-component ontology and provenance/explanation component.
- [Transparent Accountable Datamining Initiative \(TAMI\)](#) [NSF] -- lead research on policy testbed and justification component.

- Cognitive Agent that Learns and Observes (CALO) [DARPA] -- lead research on explanation infrastructure for CALO agent components.
- DAML-Based Services, Document Templates and Query Answering [DARPA] -- develop a customized search engine for PML provenance data.
- [Science on the Semantic Web -- Prototypes in Bioinformatics \(SPIRE\) - Swoogle](#) [NSF] -- create Swoogle, the first web-scale semantic web search engine
- [SemDIS: Discovering Complex Relationships in the Semantic Web \(SemDis\)](#) [NSF] -- integrate complex social networks on the Web and analyze their structural properties and growth models

Other Projects

- AWARE -- context aware computing focusing on sensor data fusion and high level reasoning over context stream data on smartphone
- [TWC Linking Open Government Data \(TWC LOGD\)](#) -- lead over ten graduate and undergraduate students on research and development of open government data ecosystem and help US government to adopt Semantic Web technologies.
- [Inference Web](#) -- lead research on provenance ontology and provenance-aware computing.
- Wikipedia Trust -- design provenance-aware trust models for Wikipedia articles
- [International Trading Agent Competition \(TAC\)](#) -- design a software agent to compete in a multi-agent auction game. Ranked 4th in TAC'02, 5th in TAC'03, 2nd in TAC SCM'04
- Independent Study -- design EDS, an online PCA algorithm and an online random projection algorithm
- National Optical Fiber Cable Monitor System -- design system communication, UI and database components using Visual C++.
- WebGIS -- Develop object-oriented data model and communication protocol for Web-based spatial information sharing system.
- GeoAgent -- survey Microsoft's DCOM technology and design a collaborative multi-agent system for retrieving maps from distributed data sources.