

CURRICULUM VITAE

Lise C. Getoor

DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF MARYLAND INSTITUTE FOR ADVANCED COMPUTER STUDIES
THE UNIVERSITY OF MARYLAND COLLEGE PARK
FEBRUARY, 2008

1 Personal Information

1.1 Current Position

Assistant Professor, University of Maryland (appointed December, 2001)
Computer Science Department (50%)
University of Maryland Institute for Advanced Computer Studies (UMIACS) (50%)

1.2 Education

Stanford University, Ph.D. in Computer Science, 2001.
Dissertation title: Learning Statistical Models from Relational Data
Supervisor: Daphne Koller

University of California, Berkeley, Master of Science in Computer Science, 1989.
Master's thesis title: The Instance Description Language: How it can be derived and the use of its Derivation
Supervisor: Stuart Russell

University of California, Santa Barbara, Bachelor of Science in Computer Science, Highest Honors, 1986.

1.3 Employment

Assistant Professor, Department of Computer Science and UMIACS, University of Maryland, College Park, MD. *12/01 to present.*

Research Assistant, Computer Science Department, Stanford University, Palo Alto, CA. *9/95 to 12/01.*

Intern, Xerox PARC, Palo Alto, CA. *6/96 to 9/96.*

Research Associate, NASA Ames Research Center, Mountain View, CA. *12/92 to 8/95.*

Software Engineer, Aion Corporation, Palo Alto, CA. *6/89 to 11/92.*

Research Assistant, University of California, Berkeley, Berkeley, CA. *9/87 to 5/89.*

Teaching Assistant, University of California, Berkeley, Berkeley, CA. *9/86 to 9/87.*

Engineering Intern, Delco Electronics, Goleta, CA. *6/85 to 2/86.*

2 Research, Scholarly, and Creative Activities

† Indicates a student or post-doc co-author.

2.1 Patents

1. “D-Dupe: A Visual Interface for Relational DeDuplication,” with Mustafa Bilgic[†], Louis Licamele[†] and Ben Shneiderman. Provisional Patent submitted by University of Maryland.

2.2 Books

1. An Introduction to Statistical Relational Learning, Lise Getoor and Ben Taskar, editors, MIT Press, August 2007.

2.3 Edited Volumes

1. “Probabilistic, Logical and Relational Learning - Towards a Synthesis,” Luc De Raedt, Thomas Dietterich, Lise Getoor, Kristian Kersting, Stephen Muggleton, Dagstuhl Online Seminar Proceedings 07161, 2007, to appear.
2. SigKDD Explorations Special Issue on “Link Mining”, Lise Getoor and Chris Diehl, ACM Press, December, 2005.
3. “Probabilistic, Logical and Relational Learning - Towards a Synthesis,” Luc De Raedt, Thomas Dietterich, Lise Getoor, Stephen Muggleton, Dagstuhl Online Seminar Proceedings 05051, 2005.
4. “The 9th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining,” Pedro Domingos, Christos Faloutsos, Ted Senator, Hillol Kargupta and Lise Getoor, ACM Press, 2003.

2.4 Book Chapters

1. “Collective Relational Clustering,” Indrajit Bhattacharya[†] and Lise Getoor. In *Constrained Clustering: Advances in Algorithms, Theory and Applications*, Sugato Basu, Ian Davidson and Kiri Wagstaff (eds), Taylor and Francis Group, to appear 2008.
2. “A Feature Generation Algorithm with Applications to Biological Sequence Classification,” Rezarta Islamaj[†], Lise Getoor and John W. Wilbur. In *Computational Methods of Feature Selection*, Huan Liu and Hiroshi Motoda (eds), Chapman and Hall/CRC Press, 2007.
3. “Probabilistic Relational Models,” Lise Getoor, Nir Friedman, Daphne Koller, Avi Pfeffer, and Ben Taskar. In *An Introduction to Statistical Relational Learning*, L. Getoor and B. Taskar (eds.), 129-174, MIT Press, August 2007.
4. “Graphical Models in a Nutshell,” Nir Friedman, Daphne Koller, Lise Getoor, and Ben Taskar. In *An Introduction to Statistical Relational Learning*, L. Getoor and B. Taskar (eds.), 13-56, MIT Press, August 2007.
5. “Entity Resolutions in Graphs,” Indrajit Bhattacharya[†] and Lise Getoor. In *Mining Graph Data*, D. Cook and L. Holder (eds.), 311-342, Wiley, 2006.

6. “Link-based Classification”, Lise Getoor. In *Advanced Methods for Knowledge Discovery from Complex Data*, S. Bandyopadhyay, U. Maulik, L. Holder and D. Cook (eds.), 184-207, Springer-Verlag, 2005.
7. “Learning Probabilistic Relational Models”, Lise Getoor, Nir Friedman, Daphne Koller, and Avi Pfeffer. In *Relational Data Mining*, Sašo Džeroski and Nada Lavrač (eds.), 307-335, Springer-Verlag, 2001.

2.5 Articles in Refereed Journals

1. “Interactive Entity Resolution in Relational Data: A Visual Analytic Tool and Its Evaluation,” Hyunmo Kang, Lise Getoor, Ben Shneiderman, Mustafa Bilgic[†] and Louis Licamele[†], *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 17 pages, to appear.
2. “Structured Machine Learning: The Next Ten Years”, Tom Dietterich, Pedro Domingos, Lise Getoor, Stephen Muggleton, and Prasad Tadepalli, *Machine Learning Journal (MLJ)*, 24 pages, to appear.
3. “Trusting Spam Reporters: A Reporter-based Reputation System for Spam Filtering,” Elena Zheleva[†], Alek Kolcz and Lise Getoor, *ACM Transactions on Information Systems (TOIS)*, 18 pages, accepted subject to minor revisions.
4. “Learning Structured Bayesian Networks: Combining Abstraction Hierarchies and Tree-structured Conditional Probability Tables,” Marie desJardins, Lise Getoor and Priyang Rathod[†], *Journal of Computational Intelligence (CI)*, 36 pages, .
5. “Query-time Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, *Journal of Artificial Intelligence Research (JAIR)*, volume 30, pages 621-657.
6. “Cost-sensitive Learning with Conditional Markov Networks,” Prithvi Sen[†] and Lise Getoor, *Journal of Data Mining and Knowledge Discovery (DMKD)*, 31 pages, to appear.
7. “Probabilistic Interval XML,” Edward Hung[†], Lise Getoor and V.S. Subrahmanian, *ACM Transactions on Computational Logic (TOCL)*, 35 pages, Volume 8, Number 4, October 2007 (tentative).
8. “SplicePort - An Interactive Splice-site Analysis Tool,” Rezarta Islamaj[†], Lise Getoor, W. John Wilbur and Stephen Mount, *Nucleic Acids Research (NAR)*, 1-7, June 2007.
9. “Collective Entity Resolution In Relational Data,” Indrajit Bhattacharya[†] and Lise Getoor, *ACM Transactions on Knowledge Discovery from Data (TKDD)*, vol. 1, no. 1, 1-36, March 2007.
10. “PRL: A Logical Approach to Probabilistic Relational Models,” Lise Getoor and John Grant, *Machine Learning Journal (MLJ)*, Volume 62, Issue 1 - 2, 7-31, February 2006.
11. “Understanding Tuberculosis Epidemiology using Probabilistic Relational Models,” Lise Getoor, Jeanne Rhee, Daphne Koller, and Peter Small, *AI in Medicine Journal (AIMJ)*, volume 30, 233-256, 2004.
12. “Learning Probabilistic Models of Link Structure,” Lise Getoor, Nir Friedman, Daphne Koller, and Ben Taskar, *Journal of Machine Learning Research (JMLR)*, volume 3, 679-707, 2002.

13. “Learning Structured Statistical Models from Relational Data,” Lise Getoor, Nir Friedman and Daphne Koller, *Electronic Transactions on Artificial Intelligence (ETAI)*, volume 6, section B, online publication, 2002.

2.6 Invited Articles

1. “Increasing the Predictive Power of Affiliation Networks,” Lisa Singh and Lise Getoor, *Data Engineering Bulletin*, vol. 30, no. 2, 41-50, June, 2007.
2. “Collective Entity Resolution In Relational Data,” Indrajit Bhattacharya[†] and Lise Getoor, *Data Engineering Bulletin*, vol. 29, no. 2, 4-12, June, 2006.
3. “An Introduction to Probabilistic Graphical Models for Relational Data,” Lise Getoor, *Data Engineering Bulletin*, vol. 29, no. 1, 32-39, March, 2006
4. “Link Mining: A Survey,” Lise Getoor and Chris Diehl, *SigKDD Explorations Special Issue on Link Mining*, vol. 7, no. 2, 3-12, December 2005.
5. “Structure Discovery using Statistical Relational Learning,” Lise Getoor, *Data Engineering Bulletin*, vol. 26, no. 3, 11-18, September, 2003.
6. “Link Mining: A New Data Mining Challenge,” Lise Getoor, *SIGKDD Explorations*, vol. 5, no. 1, 84-89, July, 2003.

2.7 Articles in Top-tier Refereed Conferences

1. “VOILA: Efficient Feature-value Acquisition for Classification,” Mustafa Bilgic[†] and Lise Getoor, in *Proceedings of the 22nd National Conference on Artificial Intelligence (AAAI)*, 1225-1230, July 2007. *Accepted for both oral and poster presentation; oral acceptance rate: 27%, poster acceptance rate: 5%*¹
2. “Relationship Identification for Social Network Discovery,” Christopher Diehl, Galileo Mark Namata[†], and Lise Getoor, in *Proceedings of the 22nd National Conference on Artificial Intelligence (AAAI)*, 546-552, July 2007. *Acceptance rate: 27%*
3. “Online Collective Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, in *Proceedings of the 22nd National Conference on Artificial Intelligence (AAAI)*, 1606-1609, July 2007. *AAAI Nectar Paper. Accepted for both oral and poster presentation; oral acceptance rate: 37%, poster acceptance rate: 17%*¹
Nectar papers are based on results that have appeared at sister AI Conferences in the past two years and deemed to be of interest to a broad AI audience; this article is based on Bhattacharya and Getoor, KDD06.
4. “Leveraging Data and Structure in Ontology Integration,” Octavian Udrea[†], Lise Getoor, and Renée Miller, in *Proceedings of ACM-SIGMOD 2007 International Conference on Management of Data (SIGMOD)*, 449-460, June 2007. *Acceptance rate: 14.6%*
5. “Social Capital in Friendship-Event Networks,” Louis Licamele[†] and Lise Getoor, in *Proceedings of the IEEE International Conference on Data Mining (ICDM)*, 959-964, December 2006. *Acceptance rate: 19.6%*

¹The poster acceptance rate is lower than the oral presentation acceptance rate because in this year’s AAAI conference only the best papers, deemed to appeal to a broad audience, were invited to present posters.

6. “Query-time Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, in *Proceedings of the 12th International Conference on Knowledge Discovery and Data Mining (KDD)*, 529-534, August 2006. *Acceptance rate: 23%*
7. “Cost-Sensitive Markov Networks,” Prithviraj Sen[†] and Lise Getoor, in *Proceedings of the 23rd International Conference on Machine Learning (ICML)*, 801-808, June 2006. *Acceptance rate: 20%*
8. “A Latent Dirichlet Model for Unsupervised Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, in *Proceedings of the 6th SIAM Conference on Data Mining (SDM)*, 47-58, April 2006. **Winner of Best Paper Award.** *Acceptance rate: 16%*
9. “Name Reference Resolution in Organizational Email Archives,” Chris Diehl, Lise Getoor and Galileo Namata[†], in *Proceedings of the 6th SIAM Conference on Data Mining (ICDM)*, 55-64, April 2006. *Acceptance rate: 16%*
10. “Pruning Social Networks Using Structural Properties and Descriptive Attributes,” Lisa Singh, Lise Getoor and Louis Licamele[†], in *Proceedings of the International Conference on Data Mining (ICDM)*, 773-776, November, 2005. *Acceptance rate: 18%*
11. “Word Sense Disambiguation using Probabilistic Models,” Indrajit Bhattacharya[†], Lise Getoor and Yoshua Bengio, in *Proceedings of the 42nd Annual Meeting of the Association for Computational Linguistics (ACL)*, 288-295, July, 2004. *Acceptance rate: 25%*
12. “Using the Structure of Web Sites for Automatic Segmentation of Tables,” Kristina Lerman, Lise Getoor, Steve Minton and Craig Knoblock, in *Proceedings of the ACM-SIGMOD 2004 International Conference on Management of Data (SIGMOD)*, 119-130 June 2004. *Acceptance rate 16%*
13. “Link-based Classification,” Qing Lu[†] and Lise Getoor, in *Proceedings of the International Conference on Machine Learning (ICML)*, 496-503, August 2003. *Acceptance rate: 32.1%*
14. “PXML: A Probabilistic Semistructured Data Model and Algebra,” Edward Hung[†], Lise Getoor and V. S. Subrahmanian, in *Proceedings of the IEEE International Conference on Data Engineering (ICDE)*, 467-478, March 2003. *Acceptance rate: 13%*
15. “Probabilistic Interval XML,” Edward Hung[†], Lise Getoor and V. S. Subrahmanian, in *Proceedings of the International Conference on Database Theory (ICDT)*, 358-374, January 2003. *Acceptance rate: 29%*
16. “Learning Probabilistic Models of Relational Structure,” Lise Getoor, Nir Friedman, Daphne Koller, and Ben Taskar, in *Proceedings of International Conference on Machine Learning (ICML)*, 170-177, June 2001. *Acceptance rate: 32.1%*
17. “Selectivity Estimation using Probabilistic Relational Models,” Lise Getoor, Daphne Koller, and Ben Taskar, in *Proceedings of ACM-SIGMOD 2001 International Conference on Management of Data (SIGMOD)*, 461-472, May 2001. *Acceptance rate 15%*
18. “Learning Probabilistic Relational Models,” Nir Friedman, Lise Getoor, Daphne Koller and Avi Pfeffer, in *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, 1300-1309, July, 1999. *Acceptance rate: 26%*

19. "Utility Elicitation as a Classification Problem," Ursulza Chajewska, Lise Getoor, Joseph Norman and Yuval Shahar, in *Proceedings of Uncertainty in Artificial Intelligence (UAI)*, 79-88, August, 1998. **Winner of the UAI '98 best student paper award.** *Acceptance rate not available*
20. "Effective Redundant Constraints for Online Scheduling," Lise Getoor, Gregor Ottosson, Markus Fromherz and Bjorn Carlson, in *Proceedings of the Fourteenth National Conference on Artificial Intelligence (AAAI)*, 302-307, July, 1997. *Acceptance rate not available*
21. "Scope and Abstraction: Two Criteria for Localized Planning," Amy Lansky and Lise Getoor, in *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, 1612-1619, August, 1995. *Acceptance rate not available*

2.8 Other Articles in Refereed Conferences and Workshops

Page numbers and acceptance rates listed where available

1. "Privacy Preservation of Relationships in Graph Data," Elena Zheleva[†] and Lise Getoor, *KDD Workshop on Privacy, Security and Trust (PinKDD)*, to appear August, 2007.
2. "GeoDDupe: A Novel Interface for Interactive Entity Resolution in Geospatial Data," Hyunmo Kang[†], Vivek Sehgal[†], and Lise Getoor, in *Proceedings of the IEEE International Conference on Information Visualization (IV)*, 489-496, July 2007.
3. "Visual Mining of Multi-Modal Social Networks at Different Abstraction Levels," Lisa Singh, Mitchell Beard[†], Lise Getoor, and M. Brian Blake, in *Proceedings of the IEEE International Conference on Information Visualization (IV)*, 672-680, July 2007.
4. "Combining Statistical and Logical Inference for Ontology Alignment," Octavian Udrea and Lise Getoor, *IJCAI Workshop on Semantic Web for Collaborative Knowledge Acquisition (SWEKA)*, January, 2007.
5. "Entity Resolution in Geospatial Data Integration," Vivek Sehgal[†], Lise Getoor, and Peter Viechnicki, in *Proceedings of 14th ACM International Symposium on Advances in Geographic Information Systems (ACMGIS)*, 83-90, November 2006. *Acceptance rate: 32%*
6. "D-Dupe: An Interactive Tool for Entity Resolution in Social Networks," Mustafa Bilgic[†], Louis Licamele[†], Lise Getoor and Ben Shneiderman, in *Proceedings of the IEEE Symposium on Visual Analytics Science and Technology (VAST)*, 43-50, October 2006. *Acceptance rate: 43%*
7. "Feature Generation for Sequences: An Application to Splice Site Prediction," Rezarta Islamaj[†], Lise Getoor and W. John Wilbur, in *Proceedings of the 10th European Conference on Principles and Practices of Knowledge Discovery in Databases (PKDD)*, 553-560, September 2006. *Acceptance rate: 20%*
8. "Is there a Grand Challenge or X-prize for Data Mining?" Gregory Piatetsky-Shapiro, Robert Grossman, Chabane Djeraba, Ronen Feldman, Lise Getoor, and Mohammed Zaki, in *Proceedings of the 12th International Conference on Knowledge Discovery and Data Mining (KDD)*, 954-956, August 2006.

9. “Inferring Organizational Titles in Online Communications,” Galileo Namata[†], Lise Getoor and Chris Diehl, *ICML Workshop on Statistical Network Analysis (ICML-SNA)*, June 2006.
10. “Predicting Protein-Protein Interactions using Relational Features,” Louis Licamele[†] and Lise Getoor, *ICML Workshop on Statistical Network Analysis (ICML-SNA)*, June 2006.
11. “Entity and Relationship Labeling in Affiliation Networks,” Bin Zhao, Prithviraj Sen[†] and Lise Getoor, *ICML Workshop on Statistical Network Analysis (ICML-SNA)*, June 2006.
12. “Relational Clustering for Entity Resolution Queries,” Indrajit Bhattacharya[†], Louis Licamele[†] and Lise Getoor, *ICML Workshop on Statistical Relational Learning (SRL)*, June 2006.
13. “Empirical Comparison of Approximate Inference Algorithms for Networked Data,” Prithviraj Sen[†] and Lise Getoor, *ICML Workshop on Statistical Relational Learning (SRL)*, June 2006.
14. “Cost-Sensitive Learning with Conditional Markov Networks,” Prithviraj Sen[†] and Lise Getoor, *SIAM Data Mining Workshop on Link Analysis, Counter-terrorism and Security (LACS)*, April, 2006.
15. “A Feature Generation Algorithm for Sequences with Application to Splice-Site Prediction,” Rezarta Islamaj[†], Lise Getoor and W. John Wilbur, *SIAM Data Mining International Workshop on Feature Selection for Data Mining: Interfacing Machine Learning and Statistics (FSDM)*, April, 2006.
16. “Bayesian Network Learning with Abstraction Hierarchies and Context-Specific Independence,” Marie desJardins, Priyang Rathod and Lise Getoor, in *Proceedings of the 16th European Conference on Machine Learning (ECML)*, 485-496, October, 2005. *Acceptance rate: 19.7%*
17. “D-Dupe: An Interactive Tool for Entity Resolution in Social Networks (poster),” Mustafa Bilgic[†], Louis Licamele[†], Lise Getoor and Ben Shneiderman, in *Proceedings of the 13th International Symposium on Graph Drawing*, 505-507, September, 2005.
18. “Capital and Benefit in Social Networks,” Louis Licamele[†], Mustafa Bilgic[†], Lise Getoor and Nick Roussopoulos, *KDD Workshop on Link Discovery: Issues, Approaches and Applications (LinkKDD)*, 44-51, August, 2005.
19. “Relational Clustering for Multi-type Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, *KDD Workshop on Multi Relational Data Mining (MRDM)*, 3-12, August, 2005.
20. “Deduplication and Group Detection using Links,” Indrajit Bhattacharya[†] and Lise Getoor, *KDD Workshop on Link Analysis and Group Detection*, August 2004.
21. “Iterative Record Deduplication,” Indrajit Bhattacharya[†] and Lise Getoor, *ACM SIGMOD Workshop on Research Issues in Data Mining and Knowledge Discovery (DMKD)*, 11-18, June 2004.
22. “Link-based Classification using Labeled and Unlabeled Data,” Qing Lu[†] and Lise Getoor, *ICML Workshop on “The Continuum from Labeled to Unlabeled Data in Machine Learning and Data Mining*, 496-503, August 2003.

23. "Link-based Text Classification," Qing Lu[†] and Lise Getoor, *IJCAI Workshop on "Text Mining and Link Analysis"*, August 2003.
24. "Multi-relational Data Mining using Probabilistic Models," Lise Getoor, *ECML Workshop on Multi-Relational Data Mining (MRDM)* September, 2001.
25. "Probabilistic Models of Text and Link Structure for Hypertext Classification," Lise Getoor, Eran Segal, Ben Taskar and Daphne Koller, *IJCAI Workshop on "Text Learning: Beyond Supervision"*, 24-29, August 2001.
26. "Using Feature Hierarchies in Bayesian Network Learning," Marie desJardins, Lise Getoor and Daphne Koller, in *Symposium on Abstraction, Reformulation and Approximation (SARA)*, 247-259, July, 2000.
27. "Learning Probabilistic Relational Models with Structural Uncertainty," Lise Getoor, Daphne Koller, Ben Taskar, and Nir Friedman, *AAAI Workshop on Learning Statistical Models from Relational Data (SRL)*, July, 2000.
28. "From Instances to Classes in Probabilistic Relational Models," Lise Getoor, Daphne Koller and Nir Friedman, *ICML Workshop on Attribute-Value and Relational Learning: Crossing the Boundaries*, June, 2000.
29. "Efficient Learning using Constrained Sufficient Statistics," Nir Friedman and Lise Getoor, in *Uncertainty99 (AI-Stats)*, January, 1999.
30. "Using Probabilistic Relational Models for Collaborative Filtering," Lise Getoor and Mehran Sahami, *Working Notes of the KDD Workshop on Web Usage Analysis and User Profiling*, August, 1999.
31. "Using Classification Techniques for Utility Elicitation: A Comparison between Standard Gamble and Visual Analog Scale Methods," Urszula Chajewska, Joseph Norman and Lise Getoor, *Twentieth Anniversary Meeting of the Society for Medical Decision Making (MDM'98)*, 1998.
32. "Utility Elicitation as a Classification Problem," Ursula Chajewska, Lise Getoor and Joseph Norman, *Proceedings of the AAAI Spring Symposium Series on Interactive and Mixed-Initiative Decision-Theoretic Systems*, March, 1998.
33. "Online Scheduling for Reprographic Machines," Lise Getoor and Markus Fromherz, *Working notes AAAI Workshop on Online Search*, July, 1997.
34. "The Collage/Khoros Link: Planning for Image Processing Tasks," Amy Lansky, Mark Friedman, Lise Getoor, Scott Schmidler and Nick Short, Jr.. *Proceedings of the AAAI Spring Symposium on Integrated Planning Applications*, 67-76, March, 1995.
35. "Scope and Abstraction: Two Criteria for Localized Planning," Amy Lansky and Lise Getoor, *Proceedings of the Workshop on Theory Reformulation and Abstraction*, May, 1994.
36. "Practical Planning in COLLAGE," Amy Lansky and Lise Getoor, *Proceedings of the AAAI Fall Symposium on Planning and Learning: On to Real Applications*, 98-104, November, 1994.

2.9 Technical Reports

1. “Link-based Classification,” Prithviraj Sen[†] and Lise Getoor, University of Maryland Technical Report CS-TR-4858, February 2007.
Significantly extended version of Sen and Getoor, SRL06
2. “Social Capital in Friendship-Event Networks,” Louis Licamele[†] and Lise Getoor, University of Maryland Technical Report CS-TR-4828, September 2006.
Significantly extended version of Licamele and Getoor, ICDM06
3. “Pruning Social Networks Using Structural Properties and Descriptive Attributes,” Lisa Singh, Lise Getoor and Louis Licamele[†], Report CSTR-20051201-25, Department of Computer Science, Georgetown University, Washington, DC, December, 2005.
Significantly extended version of Singh, Getoor and Licamele, ICDM05
4. “Data Sciences Technology for Homeland Security Information Management and Knowledge Discovery,” T. Kolda, D. Brown, J. Coronas, T. Critchlow, T. Eliassi-Rad, L. Getoor, B. Hendrickson, V. Kumar, D. Lambert, C. Matarazzo, K. McCurley, M. Merrill, N. Samatova, D. Speck, R. Srikant, J. Thomas, M. Wertheimer, and P.-C. Wong, Sandia National Laboratories Technical Report SAND2005-6648, Albuquerque, NM and Livermore, CA, January 2005.
5. “Entity Resolution in Graph Data,” Indrajit Bhattacharya[†] and Lise Getoor, University of Maryland Technical Report CS-TR-4758, October 2005.
Significantly extended version of Bhattacharya and Getoor, DMKD04
6. “A Latent Dirichlet Model for Unsupervised Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, University of Maryland Technical Report CS-TR-4740, August 2005.
Preliminary version of Bhattacharya and Getoor, SDM06
7. “An Investigation of Tree-Structured Bias in an Autonomous Concept Learning System,” Lise Getoor, NASA-Ames Research Center, Artificial Intelligence Research Branch, Technical Report IC-94-04, 1994.

2.10 Other Publications

1. “Entity Resolution in Network Data,” Lise Getoor, *International Conference on Network Science*, May 2006.
2. “Entity Resolution in Social Networks,” Indrajit Bhattacharya[†] and Lise Getoor, *International Sunbelt Social Network Conference (Sunbelt XXVI)*, April 2006.
3. “Workshop Report: Mining for and from the Semantic Web at KDD 2004,” Andreas Hotho, York Sure, and Lise Getoor, *SIGKDD Explorations*, volume 6, issue 2, 142-143, 2004.
4. “AAAI 2000 Workshop Reports,” Lise Getoor and David Jensen, *AI Magazine*, volume 22, number 1, 127-136, 2001.

2.11 Invited Contributions in Preparation

1. “Collective Classification in Network Data,” Lise Getoor, Tina Eliasi-Rad, Prithvi Sen[†], Mustafa Bilgic[†], and Galileo Namata[†], AI Magazine.
2. “Collective Entity Resolution,” Indrajit Bhattacharya[†] and Lise Getoor, invited contribution to *Constrained Clustering: Advances in Algorithms, Theory, and Applications*, Sugatu Basu and Kiri Wagstaff (eds), Chapman and Hall/CRC Press.
3. “Collective Classification in Text,” Lise Getoor and Prithvi Sen[†], invited contribution to *Text Mining: Theory, Applications, and Visualization*, Mehran Sahami and Ashok Srinivasta (eds), Chapman and Hall/CRC Press.

2.12 Talks, Abstracts, and Other Professional Papers Presented

- Invited Speaker, SIAM Annual Meeting, San Diego, CA, July, 2008.
- Speaker, Distinguished Lecture Series, University of Southern Alabama, February, 2008.
- Invited talk, NASA Goddard, February, 2008.
- Speaker, Distinguished Lecture Series, University of Michigan, November, 2007.
- Invited talk, University of Wisconsin, November, 2007.
- Invited talk, SAIL, MIT, October, 2007.
- Tutorial, “Data and Metadata Alignment,” Alberto Mendelzon Workshop on Foundations of Databases and the Web, Punta del Este, Uruguay, October, 2007.
- Invited talk, International Conference on Scalable Uncertainty Management (SUM), Washington, DC, October, 2007.
- Invited talk, Workshop on the Management of Uncertain Data, at the Conference on Very Large Databases, Vienna, Austria, September, 2007.
- Tutorial, “An Introduction to Statistical Relational Learning,” European Conference on Machine Learning, Warsaw, Poland, September, 2007.
- Invited Panelist, “Privacy Challenges and Opportunities for Sharing and Mining Weblogs,” International Workshop on Privacy, Security and Trust, Knowledge Discovery and Data Mining Conference, August, 2007.
- Invited Speaker, “Statistical Relational Learning,” PROLOGIC: Third Workshop on Combining Probability and Logic, Canterbury, UK, September, 2007.
- Keynote Speaker, “Graph Identification,” Mining and Learning with Graphs, Florence, Italy, August, 2007.
- Invited Speaker, “Graph Identification,” The National Conference on Artificial Intelligence, Vancouver, British Columbia, July, 2007.
- Invited talk, “Graph Identification,” Naval Research Laboratory (NRL), July, 2007.

- Invited Panelist, “The Next Ten Years of Relational Learning,” Inductive Logic Programming Conference (ILP), June, 2007.
- Panelist, Social Network Marketing, hosted by Mario Armstrong, The Center Club, Baltimore, MD, March, 2007.
- Invited talk, “Statistical Relational Learning: Entity Resolution and Link Prediction,” CMU Intelligence Seminar, March, 2007
- Invited Talk, “Statistical Relational Learning and Entity Resolution,” Lawrence Livermore National Laboratory, December, 2006.
- Panelist, The Future of Computer Science, UMD CS Department, December, 2006.
- Speaker, Informatics Maryland 2006, November, 2006.
- Invited Talk, “Statistical Relational Learning: Theory and Applications,” New York Academy of Science Machine Learning Symposium, October, 2006.
- Invited Talk, “Statistical Relational Learning: Theory and Applications,” Workshop on Women in Machine Learning, Grace Hopper Conference, October, 2006.
- Presentation, “Statistical Relational Learning: A Quick Intro,” Workshop on Uncertain and Probabilistic Databases (UPDB), Stanford University, September, 2006.
- Invited Panelist, “Grand Challenges for Data Mining,” Knowledge Discovery and Data Mining Conference, August, 2006.
- Invited Talk, “Entity Resolution in Relational Data,” University of Trento, May, 2006.
- Invited Talk, “Link Mining and Entity Resolution,” University of Waterloo, April, 2006.
- Invited Talk, “Link Mining,” University of Texas at Austin, February, 2006.
- Presentation, “Link Mining and Entity Resolution,” Workshop on Knowledge Discovery and Dissemination, November, 2005.
- Invited Speaker, “An Introduction to Probabilistic Relational Models for Biological and Clinical Applications,” Knowledge-Based Bioinformatics Workshop, Montreal, Canada, September, 2005.
- Joint Invited Tutorial on *Statistical Relational Learning* at the International Machine Learning Conference and the Inductive Logic Programming Conference, Bonn, Germany, August, 2005.
- Tutorial on *Representation, Inference and Learning in Relational Probabilistic Languages*, with Avi Pfeffer, at the *International Joint Conference on Artificial Intelligence*, Edinburgh, Scotland, July, 2005.
- Invited Talk, “Statistical Relational Learning and Link Mining,” Johns Hopkins Applied Physics Lab (JHUAPL), June, 2005.
- Invited Talk, “Statistical Relational Learning and Link Mining,” University of Illinois at Urbana-Champaign, November, 2004.
- Invited Talk, “Statistical Relational Learning and Link Mining,” Purdue, November, 2004.

- Presentation, “Link Mining and Discovery,” Workshop on Knowledge Discovery and Dissemination, Arlington, VA, September, 2004.
- Invited talk, “Link Mining,” KDD Workshop on Multi-Relational Data Mining, August, 2004.
- Invited talk, “Statistical Relational Learning,” George Mason University, April, 2004.
- Invited talk, “Statistical Relational Learning,” AI and Statistics Seminar Series, UC Irvine, December, 2003.
- Invited talk, “Link Mining,” Workshop on Knowledge Fusion, Cambridge, MD, November, 2003.
- Presentation, “Link Mining,” Workshop on Knowledge Discovery and Dissemination, Arlington, VA, November, 2003.
- Invited talk, “Learning Statistical Models from Relational Data,” Georgetown University, September, 2003.
- Invited talk, “Link Mining,” Workshop on Statistical Inference, Computation and Graph Visualization, Stanford, CA, August, 2003.
- Invited talk, “Selectivity Estimation using Probabilistic Models,” North Eastern Database Society, April, 2003.
- Invited talk, “Selectivity Estimation using Probabilistic Models,” CMU/Pitt Database series, April, 2003
- Talk, “Learning Statistical Models from Relational Data,” MIT, April, 2003
- Talk, “Learning Statistical Models from Relational Data,” UMass Amherst, April, 2003
- Invited talk, “Learning Statistical Models from Relational Data,” University of Toronto, March 2003.
- Invited Talk, “Learning Statistical Models from Relational Data,” University of Montreal, March 2003.
- Series of four tutorials, “Learning Probabilistic Relational Models,” at ISI/USC, June-July, 2002.
- Invited talk, “Learning Structured Statistical Models from Relational Data,” Machine Intelligence 19, UK. September, 2002.
- Invited talk, “Learning Statistical Models from Relational Data,” Summer School on Relational Data Mining, Helsinki, FI. August, 2002.
- Invited talk, “Learning Statistical Models from Relational Data,” University of Alberta, Canada. April, 2002.
- Invited talk, “Learning Statistical Models from Relational Data,” Information Sciences Institute (ISI). December, 2001.
- Invited talk, “Learning Statistical Models from Relational Data,” University of Pisa, Italy. September, 2001.

- Invited talk, “Selectivity Estimation using Probabilistic Models,” IBM Almaden. July, 2001.
- Invited talk, “Learning Probabilistic Relational Models,” NASA-Ames Research Center, September 2000.
- Talk, “An Introduction to Graphical Models for Tuberculosis Diagnosis,” San Francisco Tuberculosis Clinic, March 2000.
- Talk, “Learning Probabilistic Relational Models,” Hewlett-Packard Labs, June 1999.
- Invited talk, “Learning Probabilistic Relational Models,” Naval Research Laboratory (NRL), May 1999.
- Invited talk, “Scope and Abstraction in Constraint-based Planning,” AI Laboratory, Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland, July 1994.
- Invited talk, “Scope and Abstraction in Constraint-based Planning,” Mechanized Reasoning Group, Instituto per la Ricerca Scientifica e Tecnologica (IRST), Trento, Italy, July 1994.
- Panel member, *AAAI Fall Symposium on Planning and Learning: On to Real Applications*, November 1994.

2.13 Contracts and Grants

1. “Modularity, Differentiation and Contagion in Network Data,” Microsoft Gift, June, 2007, \$50,000. (current)
2. “Statistical Relational Learning as an Enabling Technology for Data Acquisition and Data Fusion in Heterogeneous Sensor Networks,” ARO, joint w/ David Jacobs, June, 2007, \$50,000. (current)
3. “Scalable Entity Resolution for Google Services,” Google Research Award, January, 2007, \$63,000. (current)
4. “Role Discovery in Evolving Semantic Graphs,” Lawrence Livermore National Laboratory, sole PI, March 2007 - July, 2007, \$50,000. (current)
5. “Link Mining and Discovery,” National Science Foundation, sole PI, June 1, 2003 - July 31, 2008, \$400,000. (current)
6. “SOD: Data and Meta-Data Integration Maintenance,” National Science Foundation, sole PI, January 1, 2004 - December 31, 2008, \$510,200. (current)
7. “Entity Resolution in Geospatial Data”, NGA Supplement to “Link Mining and Discovery,” National Science Foundation, sole PI, February 1, 2006 - July 31, 2007, \$100,000. (current)
8. “Statistical Relational Learning for the Semantic Web”, NGA Supplement to “Link Mining and Discovery,” National Science Foundation, sole PI, February 1, 2005 - July 31, 2006, \$200,000.
9. “Link-based Entity Resolution and Object Consolidation”, KDD Supplement to “Link Mining and Discovery,” National Science Foundation, sole PI, February 1, 2005 - July 31, 2006, \$165,709.

10. NGA Supplement to “Link Mining and Discovery,” National Science Foundation, sole PI, February 1, 2004 - January 31, 2005, \$400,000.
11. “Identifying and Visualizing Changing Patterns in Relational Data,” subcontract UMBC/NIMA, Sole-PI on subcontract, September 15, 2002 - September 29, 2004, \$198,219.
12. “Mediation Technology for Biological Pipeline Analysis,” National Science Foundation, PI: Louiqa Raschid, Co-PI: Lise Getoor, October 1, 2004 - September 30, 2007, \$550,000.
13. ”Knowledge Integration Research Initiative,” ARL contract, August 1, 2003 - January 31, 2004, PIs: V.S. Subrahmanian, Jim Hendler, Ben Bederson, Larry Davis and Lise Getoor, \$700,000.
14. “Jaguar,” Lockheed Martin, September 15, 2004 - September 15, 2009, PI: Jim Hendler, \$700,787.
15. “Human Activity Analysis and Recognition using Distributed Cameras,” July 1, 2002 - June 30, 2003, PIs: Rama Challapa and Larry Davis, \$364,799.

2.14 Professional Service

- **Associate Editor:** Journal of Artificial Intelligence (JAIR), July 2006 - July 2009.
- **Action Editor:** Machine Learning Journal (MLJ), June 2007 - June 2010.
- **Editorial Board:** Journal of Artificial Intelligence (JAIR), March 2005 - March 2008.
Machine Learning Journal (MLJ), April 2004 - December 2006.
- **AAAI Councilor**, elected 2004 for three year term.
- **Co-organizer:** “Probabilistic, Logical and Relational Learning”, Dagstuhl workshop, April, 2007.
- **Co-chair:** “Open Problems in Statistical Relational Learning (SRL06)” workshop at International Conference on Machine Learning, June, 2006.
- **Co-organizer:** “Probabilistic, Logical and Relational Learning—Towards a Synthesis”, Dagstuhl workshop, February, 2005.
- **Organizing Committee:** “DHS Data Sciences Workshop”, DHS Advanced Scientific Computing (ASC) Requirements workshop, September, 2004.
- **Organizing Committee:** “Mining for and from the Semantic Web”, workshop at the International Conference on Knowledge Discovery and Data Mining, August, 2004.
- **Co-chair:** “Statistical Relational Learning and its Connections to Other Fields (SRL04)” workshop at International Conference on Machine Learning, July, 2004.
- **Co-chair:** “Learning Statistical Models from Relational Data (SRL03)” workshop at International Joint Conference on Artificial Intelligence, July, 2003.
- **Publications chair:** International Conference on Knowledge Discovery and Data mining, August, 2003.

- **Co-chair:** “Learning Statistical Models from Relational Data (SRL00)” workshop at Seventeenth National Conference on Artificial Intelligence, July, 2000.

- **Senior Program Committee Member or Area Chair:**

- International Conference on Machine Learning ICML 2008
- National Conference on Artificial Intelligence AAI 2008
- SIAM Data Mining Conference SDM 2008
- International Conference on Machine Learning ICML 2007
- National Conference on Artificial Intelligence AAI 2007
- SIAM Data Mining Conference SDM 2007
- Conference on Uncertainty in Artificial Intelligence UAI 2006
- International Conference on Machine Learning ICML 2006
- National Conference on Artificial Intelligence AAI 2006
- International Conference on Knowledge Discovery and Data Mining KDD 2006
- SIAM Data Mining Conference SDM 2006
- International Conference on Machine Learning ICML 2005
- International Conference on Machine Learning ICML 2004

- **Conference Program Committee Member:**

- International Conference on Very Large Databases VLDB 2008
- International Conference on Management of Data SIGMOD 2006
- International Conference on Very Large Databases VLDB 2006
- International Conference on Inductive Logic Programming ILP 2005
- International Conference on Artificial Intelligence IJCAI 2005
- Artificial Intelligence & Statistics AI & STAT 2005
- Conference on Uncertainty in Artificial Intelligence UAI 2004
- National Conference on Artificial Intelligence AAI 2004
- International Conference on Very Large Databases VLDB 2004
- International Conference on Management of Data SIGMOD 2004
- International Conference on Machine Learning ICML 2003
- International Conference on Artificial Intelligence IJCAI 2003
- Conference on Uncertainty in Artificial Intelligence UAI 2003
- European Conference on Machine Learning ECML 2003
- International Conference on Inductive Logic Programming ILP 2003
- International World-Wide Web Conference WWW 2003
- Conference on Uncertainty in Artificial Intelligence UAI 2002
- National Conference of the American Association of Artificial Intelligence AAI 2002
- International Conference on Logic Programming ILP 2002

Workshop Program Committee Member:

- First ACM Workshop on AISec, ACM Conference on Computer and Communications Security, 2008.
 - Semantic Search 2008 Workshop, European Semantic Web Conference, 2008
 - TextGraphs-3: Graph-based Methods for Natural Language Processing, HLT Workshop, 2008
 - Workshop on Mining Graphs and Complex Structures (MGCS), ICDM 2007
 - Management of Uncertain Data (MUD) Workshop, VLDB 2007
 - Multi-Relational Data Mining Workshop (MRDM), ECML 2007
 - SigKDD Workshop on Web Mining and Social Network Analysis (SNAKDD), KDD 2007
 - Multi-Relational Data Mining Workshop (MRDM), KDD 2003
 - Workshop on Data Cleaning and Record Linkage, KDD 2003
 - Workshop on Information Integration on the Web (IIWeb), IJCAI 2003
 - Multi-Relational Data Mining Workshop (MRDM), KDD 2002
 - Symposium on Abstraction, Reformulation and Approximation, SARA 2002
 - ACM Workshop on Data Mining and Knowledge Discovery, DMKD 2002
 - Workshop on Next Generation Information Technologies and Systems, NGITS 2002
 - Workshop on Software Support for Bayesian Analysis Systems, NIPS 2000
 - Symposium on Abstraction, Reformulation and Approximation, SARA 2000
- **Reviewer:** SIGART/AAAI Doctoral Consortium, Journal of Artificial Intelligence Research, IEEE Transactions on Knowledge and Data Engineering, Very Large Databases Journal, and Journal of Logic and Computation.
 - NSF Panelist: 2002, 2003, 2005, 2007.
 - Member of NSF CISE Advisory Board, Committee of Visitors (COV) Review Panel, December, 2005.

2.15 Fellowships, Prizes and Awards

1. Best Paper Award, SIAM Data Mining Conference (SDM), 2006.
2. Finalist, Microsoft New Faculty Fellowship, 2005. One of 11 finalists chosen nationally.
3. National Physical Sciences Consortium Fellowship, 1995-2001.
4. Best Student Paper Award, Uncertainty in Artificial Intelligence, 1998.
5. Recipient of Aion Key Contributor Award, 1992.
6. Recipient of Aion Teammate Award, 1991.
7. Zorvich Fellowship, University of California, Berkeley, 1988.
8. Tau Beta Pi, 1984-86.

3 Teaching, Advising and Mentoring

3.1 Course and Curriculum Development

1. CMSC 828G - Statistical Relational Learning and Link Mining (Spring 2005). Created new course on statistical relational learning.
2. CMSC 726 - Introduction to Machine Learning (Spring 2005, Spring 2004). The course presents both statistical pattern recognition and machine learning algorithms.
3. CMSC 828G - Data Mining (Spring 2002). Created a new graduate data mining curriculum. The course presents a statistical foundation for data mining.
4. CMSC 421 - Artificial Intelligence (Fall 2002, Fall 2003, Fall 2005, Fall 2006, Spring 2007). Undergraduate introduction to Artificial Intelligence course.
5. Reading Group in Link Analysis and Graph Mining - Summer 2003
6. Reading Group in Data Mining - Fall 2003
7. Reading Group in Graphical Models - Spring 2003

3.2 Advising: Research Advisor

3.2.1 Doctoral (current)

- Mustafa Bilgic, 2004 to present. Expected Graduation: Spring 2009.
- Louis Licamele, 2004 to present. Expected Graduation: Spring 2009.
- Galileo Namata, 2005 to present. Expected Graduation: Spring 2009.
- Prithviraj Sen (joint with Amol Deshpande), 2003 to present. Expected Graduation: Fall 2008.
- Elena Zheleva, 2006 to present. Expected Graduation: Fall 2009.

3.2.2 PhD (graduated)

- Indrajit Bhattacharya, December 2006.
- Rezarta Islamaj, December 2007.

3.2.3 Masters (graduated)

- Qing Lu, 2004.
- Vivek Sehgal, 2007.

3.3 Advising: Ph.D. Proposal Committees (UMD)

1. Jinwook Seo, graduated.
2. Bill Kules, graduated.
3. Jen Golbeck, graduated.
4. Edward Hung, graduated.
5. Hilary Hutchinson, graduated.
6. Rob Ross, graduated.
7. Cengiz Celik, graduated.
8. Carl Anderson, current.
9. Yannis Sismanis, graduated.
10. Antonios Deligiannakis, graduated.
11. Marat Fayzullin, graduated.
12. Dimitrious Tsoumakos, graduated.
13. Okan Kolak, graduated.
14. Yu Deng, graduated.
15. Nargess Memarsadeghi, graduated.
16. Adam Perer, current.
17. Vikas Raykar, graduated.
18. Tamer Elsayed, current.

3.4 Ph.D. Defense Committees (UMD)

1. Amit Juneja (EE), graduated.
2. Jinwook Seo, graduated.
3. Jen Golbeck, graduated.
4. Edward Hung, graduated.
5. Antonios Deligiannakis, graduated.
6. Rob Ross, graduated.
7. Yannis Sismanis, graduated.
8. Marat Fayzullin, graduated.
9. Okan Kolak, graduated.

10. Cengiz Celik, graduated.
11. Bill Kules, graduated.
12. Yu Deng, graduated.
13. Alvaro Cardenas (EE), graduated.
14. Dimitris Tsoumakos, graduated.
15. Vikas Raykar, graduated.
16. Nargess Memarsadeghi, graduated.
17. Jae-Yoon Jung, graduated.

3.5 Advising: Ph.D. Proposal Committees (External)

1. Vitor Carvalho, Carnegie Mellon University (CMU).

3.6 Mentoring

- “Phinished: Now What?”, presentation on post-PhD career opportunities, given yearly in the How to Do Research course, and several other venues.
- Invited Speaker at the Women in Machine Learning Workshop at the Grace Hopper Conference on Women in Computing, October 2006.

4 Service

4.1 Departmental Service

- Department Council, 2006-2007.
- Faculty Recruitment (two searches), 2005-2006.
- Department Council, 2005-2006.
- Faculty Recruitment, 2004-2005.
- Department Council, 2004-2005.
- Retreat committee on Graduate Admittance, Recruitment, Retention and Gradation, 2003.
- Faculty Recruitment, 2003-2004.
- Department Council, 2003-2004.
- Organized (and funded) AI@UMD seminar series, 2003.
- Organized (and funded) AI Social, 2002-2006.
- Organized AI Day, April 2007.

4.2 University

- UMIACS Steering Committee, 2006-2007.
- UMIACS APT Committee, 2005-2006.
- CS Chair Review Committee, 2004.
- UMIACS APT Committee, 2002-2003.
- Research Review Day, 2002-2003.