Susan Evalyn Gauch

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Biographical Sketch

Dr. Gauch received her Ph.D. from University of North Carolina-Chapel Hill in 1990 where she developed an expert search assistant for an online full-text database. While a Senior Research Scientist with the Biological Knowledge Laboratory at Northeastern University, she explored the storage, retrieval, and user interface technologies necessary for technical literature. At the University of Kansas, from 1993-2007, she explored the use of intelligent agents for information fusion from the web, research funded by her NSF CAREER award. Other research explored meta-search engines, content-based searching of digital video libraries, text mining, and the use of ontologies by distributed information agents. Four projects (VISION, ProFusion, ProFilter and OBIWAN) resulted in software licenses to industry. She is past Vice-Chair for the ACM Special Interest Group on Information Retrieval and is a reviewer for major funding organizations, conferences, and archival journals. She also won a campus-wide Kemper Award for Excellence in Teaching.

In 2007, Dr. Gauch joined the University of Arkansas to become the head of Computer Science and Computer Engineering where she remained active in research. One recently funded project focused on adding conceptual and personalized information access within the context of the CiteSeer digital library of computer science literature. Over her career, she has received research funding of over $1.9 million as PI and over $30 million as Co-PI. As department head, she oversaw an increase of over 50% in undergraduate enrollments and a more than two-fold increase in scholarly publications and funded research. Outreach focused on creating summer camps for students in grades 6 – 11, increasing scholarships, and honoring outstanding alumni. She developed mentoring programs for the seven new faculty hires and led the department through ABET accreditation.

Impact

Over 100 publications with 6,403 citations (2124 since 2012) with an h-index of 34 and an i10-index of 60 (citation data from Google Scholar).

Education

Doctor of Philosophy, Computer Science, August 1990, University of North Carolina, Chapel Hill, NC, USA. Dissertation: "An Expert System for Searching in Full Text," supervised by Dr. John B. Smith

Masters of Science, Computer Science, September 1982, Queen's University, Kingston, Ontario, Canada. Project: "A Formal Specification of the Constructor, Schema, and Instance Components of Queen's University Information Processing System (QUIPS)," supervised by Drs. David Barnard and Ian MacLeod

Honours Bachelor of Science, Mathematics & Computer Science, May 1981, Queen's University, Kingston, Ontario, Canada (First Class Honours)

Academic and Professional Positions

7/15-present Professor, Computer Science and Computer Engineering, University of Arkansas

8/07-6/15 Rodger S. Kline Leadership Chair, Professor and Head, Computer Science and Computer Engineering, University of Arkansas

8/04-8/07 Professor, Electrical Engineering and Computer Science, University of Kansas

1/04-8/07 Director, Intelligent Systems Laboratory, Information and Telecommunication Technology Center, University of Kansas

8/98-7/04 Associate Professor, Electrical Engineering and Computer Science, University of Kansas

8/93-7/98 Assistant Professor, Electrical Engineering and Computer Science, University of Kansas

7/91-7/93 Senior Research Scientist, Biological Knowledge Laboratory, College of Computer Science, Northeastern University

9/89-6/91 Visiting Assistant Professor, Department of Computer Science, Wellesley College

8/83-8/84 Programmer/Analyst at Systemhouse Inc., Ottawa, Ontario

9/82-7/83 Programmer/Analyst at NABU Manufacturing, Ottawa, Ontario

Academic Awards and Scholarships

ONR Fellowship, May 1988

UNC Dissertation Scholarship, July 1987

UNC Board of Governors Fellowship, August 1984

National Science and Engineering Research Council (Canada) Postgraduate Award, September 1984

National Science and Engineering Research Council (Canada) Postgraduate Award, September 1981

N.F. Dupuis Prize in Mathematics, May 1978

Queen's Honours Matriculation Scholarship, September 1977

J.W. Ansley Scholarship, May 1977

Frank Oke Trophy, May 1977

Ontario Scholarship, May 1977

Research Awards, Licenses, and Patents

Miller Scholar, School of Engineering, University of Kansas, May 2006

Kemper Award for Excellence in Teaching, September 2004

Bellows Scholar, School of Engineering, University of Kansas, May 2004

U.S. Patent 20030217056, "Method and computer program for collecting, rating, and making available electronic information," Allen, Gauch, Induri, McWilliams, Patterson, and Vijayraghavan

Miller Scholar, School of Engineering, University of Kansas, May 2003

OBIWAN, licensed to IntelliSeek, Inc., October, 2000

Miller Scholar, School of Engineering, University of Kansas, May 2000

ProFilter, licensed to ProFusion, L.L.C., January, 2000

Miller Scholar, School of Engineering, University of Kansas, August 1999

PC Professionell (Germany) Editor's Choice Award, "ProFusion: Best Advanced Meta-Search Engine," December, 1998

Miller Research Award, School of Engineering, University of Kansas, May 1998

PC Magazine Editor's Choice Award, "ProFusion: Best Advanced Meta-Search Engine," December, 1997

ProFusion, licensed to ProFusion, L.L.C., January, 1996

VISION, licensed to Worldwide Broadcasting Network, March, 1996

Consulting and Industrial Experience

2002-2007	Co-Founder and President, Veatros, L.L.C Develop and market video authentication software to international broadcasters.
2001	Consultant to RoundTable Group Provide an expert opinion on the use of metatags on search engine results.
2000-2002	Consultant to IntelliSeek Assist in the integration of ProFusion adaptive search technologies with IntelliSeek's invisible web and Bullseye products.
1999-2000	Consultant to SafeConnect Design and manage development of a classification system to provide filtering of objectionable content from the World Wide Web.
1997 – 2000	Co-Founder and Chief Technical Officer, ProFusion, L.L.C. Develop and market intelligent meta-search site, www.profusion.com.
1997-1998	Consultant to Worldwide Broadcasting Network Adapt video indexing system to integrate related textual information from the World Wide Web. Design real-time pipeline architecture for around the clock commercial deployment of video filtering system.
1994-1996	Consultant to U.S. Army Combined Arms Command History Office. Evaluate and give recommendations on the U. S. Army's Automated Historical Archives System (AHAS) program.

External Professional Service

Editorial Board Member, PeerJ Computer Science, 2015

Program co-Chair (Information Retrieval Track) for the 2014 Conference on Information and Knowledge Management (CIKM '14)

Hypothes.is Reputation Fellow, 2012

Workshop Chair, The First International Workshop on Ontologies on the Web (WEBONT 2010) St. Maarten, Netherlands Antilles, February 10-16, 2010

Doctoral Consortium Programme Committee, User Modeling, Adaptation, and Personalization (UMAP09), Trento, IT, June 22-26, 2009

Tutorial Chair for the Ninth International Conference on Web-Age Information Management (WAIM 2008), ZiangJiajie, China, July 20-22, 2008

Doctoral Consortium Co-Chair, 5th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH 2008), Hannover, Germany, July 28 – August 1, 2008

Member of Conference on Information and Knowledge Management (CIKM) Steering Committee, 2000-2006

Mentor for ACM SIGIR 2003-2005

ACM SIGIR Best Paper Award Committee, 2003

Vice-Chair, ACM Special Interest Group in Information Retrieval (SIGIR), 1999 – 2003

Workshops Chair for ACM SIGIR 2001, New Orleans, LA 1, September 9-13, 2001

General Chair for the 2000 Conference on Information and Knowledge Management (CIKM 2000), Washington, DC November 6-11, 2000

Treasurer and Membership Chair, ACM Special Interest Group in Information Retrieval (SIGIR), 1995 – 1999

Program co-Chair for the Eighth Conference on Information and Knowledge Management (CIKM '99), Kansas City, MO, November 2-6, 1999

Program co-Chair for the Eighth Conference on Information and Knowledge Management (CIKM '99), November 2-6, 1999, Kansas City, MO

Program Committee Member for:

IARIA International Conference on Information, Process, and Knowledge Management, (eKNOW), 2011-2018

IEEE/WIC/ACM International Joint Conference on Web Intelligence (WI), 2012-2018

ACM SIGIR Short Paper, 2013-2017

International Conference on Knowledge Discovery and Information Retrieval (KDIR), 2010-2018

IEEE International Conference on Systems, Man, and Cybernetics, 2014

ACM SIGIR Posters & Workshops, 2002-2005; 2008-2012

World Wide Web 2012 PhD Symposium, 2012

Workshop on Adaptive Collaboration (AC) in collaboration with 2012 International Conference on Collaboration Technologies and Systems (CTS), 2012

SIGIR 2011 Workshop on Enriching Information Retrieval (ENIR), 2011

ADAPTIVE, The International Conference on Adaptive and Self-Adaptive Systems and Applications, 2010 – 2011

IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI/IAT), 2007-2011

Conference on Information and Knowledge Management (CIKM), 1998 – 2012

International Workshop on Adaptation and Personalization for Web 2.0, 2009

1st International Conference on the Theory of Information Retrieval (ICTIR), 2007 & 2009

ACM SIGIR 1999, 2002-2008

InfoScale, 2008

Workshop on Data and Text Mining Methods in Bioinformatics (DTM-Bio), 2007

11th International Conference on User Modelling (UM), 2007

Workshop on New Technologies for Personalized Information Access at User Modeling (PIA), 2005

Workshop on Link Analysis, Counterterrorism and Security at the SIAM Data Mining Conference, 2005

Conference on Intelligence and Security Informatics, 2003 – 2005

American Association for Artificial Intelligence (AAAI), 2004

International Workshop on Semantic Web and Databases, 2003

Web-Age Information Management Conference (WAIM), 2001

Manuscript Reviewer for: ACM Transactions on Intelligent Systems and Technology, Mathematical Problems in Engineering, Journal of Morphology, ACM Computing Surveys, Journal of the American Society for Information Science and Technology (JASIST), ACM Transactions on the Internet (TOIT), User Modeling and User-Adapted Interaction (UMUAI), Engineering Applications of Artificial Intelligence, Information Processing & Management, Journal of the American Society for Information Science, International Journal on Computer Science and Information Systems (IJCSIS): Special Issue on Users and Information Systems (2010), Future Internet, SIGIR Forum, AI Review, Information Processing Letters, ACM Transactions on Information Systems (TOIS), Data and Knowledge Engineering, Internet Encyclopedia, World Wide Web Journal, IEEE Transactions on Knowledge and Data Engineering (TKDE), World Scientific and Engineering Academy and Society (WSEAS), IEEE International Workshop on IP Operations and Management (2004), Information Systems Research, International Journal of Electronic Commerce: Special Issue on Recommender Systems (2005), Journal of Web Semantics, Journal of Web Engineering, Internet Computing, Computer Standards & Interfaces, Journal of Information Science, Computing Surveys

Book Reviewer for: Addison-Wesley, Jones & Bartlett, Pearson Education, IGI Global

Chapter Reviewer for: Springer-Verlag

Proposal Reviewer for: National Science Foundation, National Institute of Health, Economic & Social Research Council (U.K.), NASA, KSTAR, Research Grants Council of Hong Kong, Vietnamese Research Council, Netherlands Organisation for Scientific Research

Member of ACM, IEEE, ACM SIGIR, IEEE Computer

Professional Service

Member, U. of A. Statistics and Analytics Steering Committee, 2013-2015

Member, College of Engineering Dean's Search Committee, 2012-2013

Member, HPCC Director Search Committee, Spring 2012

Member, U. of A. Commission of Women Committee, 2011-2014

College of Engineering representative to the Electrical Engineering Graduate Program Review Committee, 2011

Chair, Sophomore Retention Committee, 2011

Member, CoE Distance Learning Committee, 2008-2010

Scheduling officer, 2004-2007

Chair, Dean of Engineering Performance Review Committee, 2007

Administrative Fellow, 2003-2004

Member of several university-wide committees

    Information Technology Program planning committee

    Bioinformatics Director search committee

    Kemper Teaching Awards committee

Multiple faculty search committees in Business and Biology

Mentor for two junior faculty members

Advocate for two junior and one senior faculty members

Chair of several EECS committees:

    Scheduling committee

    Ph.D. Qualifier (Intelligent Information Systems track)

    Three faculty search committees

    Network Operating committee

Member of several EECS committees:

    ABET committee (Computer Engineering)

    Multiple faculty search committees

    Chair search committee

    Ad hoc curriculum review committee

    Service course committee

    Edwards Campus program committee

Publications

Refereed Journal Articles

"Text Mining for Word Sentiment Detection," Kevin Labille, Susan Gauch, and Sultan Alfarhood, *Lecture Notes in Communications in Computer and Information Science (CCIS)*, Springer Verlag.   Invited Paper (to appear)

 "Incorporating Popularity in a Personalized News Recommender System," Nirmal Jonnalagedda, Susan Gauch, Kevin Labille, and Sultan Alfarhood, *PeerJ Computer Science*, 2: e63 https://doi.org/10.7717/peerj-cs.63, June, 2016.

"Supporting Distributed Search in Virtual Worlds," Hiep Luong, Dipesh Gautam, John Gauch, Susan Gauch, and Jacob Hendricks. *Online Communities and Social Computing*, Springer Berlin Heidelberg, Vol. 8029, 2013, 395-404. Also: *5th International Conference on Virtual, Augmented, and Mixed Reality*, Nevada, Las Vegas, July 21 – 26, 2013.

"Publication Venue Recommendation using Author Network's Publication History," Hiep Luong, Tin Huynh, Susan Gauch, Loc Do, and Kiem Hoang, *Lecture Notes in Computer Science*, Springer Verlag, Vol. 7198, 2012, 426-435, DOI: 10.1007/978-3-642-28493-9_45. Also: *4th Asian Conference on Intelligent Information and Database Systems,* March 19-23, 2012.

"KeyConcept: Conceptual Search and Pruning Exploiting Concept Relationships," Susan Gauch, Devanand Ravindran, Aravind Chandramouli, *Journal of Intelligent Systems,* Vol. 19, No. 3, Kaohsiung, Taiwan, September 2010, 265-288.

"An Ontology Learning Framework Using Focused Crawler and Text Mining," Hiep Luong, Susan Gauch, Qiang Wang, and Anne Maglia, *International Journal On Advances in Life Sciences*, Vol. 1, No. 2-3, 2009, 99-109.

"Training a Hierarchical Classifier using Inter-Document Relationships," Susan Gauch, Shankar Ranganathan, Aravind Chandramouli, *Journal of the American Society for Information Science and Technology (JASIST),* Vol. 60, No. 1, January 2009, 47-58.

"An Intelligent Information Retrieval System using Automatic Word Sense Disambiguation," Prasanna G. Ramasubramanian, Arvin Agah, and Susan E. Gauch, *Journal of Intelligent Systems*, Vol. 16, No. 2, February 2007, 135-166.

"Ontology-Based Personalized Search and Browsing," Susan Gauch, Jason Chaffee, and Alexander Pretschner, *Web Intelligence and Agent Systems*, Vol. 1, No. 3-4, April 2004, 219-234.

"Real Time Repeated Video Sequence Identification," Kok Meng Pua, John M. Gauch, Susan E. Gauch, and Jedrzej Miadowicz, *Computer Vision and Image Understanding (CVIU)*, Vol. 93, No. 3, March 2004, 310-327.

"KeyConcept: Un motor de búsqueda conceptual," Juan Madrid and Susan Gauch, Revista Sistemas y Telemática, Universidad Icesi, Cali, Colombia, Jan-Jun 2003. ISSN 1692-5238, 47-62.

"A Corpus Analysis Approach for Automatic Query Expansion and its Extension to Multiple Databases," Susan Gauch, J. Wang and S. Mahesh Rachakonda, *ACM Transactions on Information Systems*, Vol. 17, No. 3, July 1999, 250-269.

"Real Time Video Scene Detection and Classification," John M. Gauch, Susan Gauch, Sylvain Bouix, Xiaolan Zhu. *Information Processing & Management*, Vol. 35 No. 3, May 1999, 381-400.

"Intelligent Information Agents: Review and Challenges for Distributed Information Sources," Donna Haverkamp and Susan Gauch, *Journal of the Society for Information Science*, Vol. 49, No. 4, April 1998, 304-311.

"ProFusion: Intelligent Fusion from Multiple, Distributed Search Engines," Susan Gauch, Guijun Wang and Mario Gomez, *Journal of Universal Computer Science*, Vol. 2, No. 9, September 1997, 637-649.

"The VISION Digital Video Library System," Susan Gauch, Wei Li and John Gauch, *Information Processing & Management*, Vol. 33, No. 4, April 1997, 413-426.

"An Expert System for Automatic Query Reformulation,"[*] Susan Gauch and John B. Smith, *Journal of the American Society of Information Science*, Vol. 44, No. 3, April 1993, 124-136.

"Intelligent Information Retrieval: An Introduction," Susan Gauch, *Journal of the American Society of Information Science*, Vol. 43, No. 2, March 1992, 175-182. (invited)

"Search Improvement via Automatic Query Reformulation," Susan Gauch and John B. Smith, *ACM Transactions on Information Systems*, Vol. 9, No. 3, July 1991, 249-280.

"An Expert System for Searching in Full-Text," Susan Gauch and John B. Smith, *Information Processing and Management*, Vol. 25, No. 3, August 1989, 253-263.

Book Chapters

"Ontology Learning using WordNet Lexical Expansion and Text Mining," Hiep Luong, Susan Gauch, and Qiang Wang. In *Theory and Applications for Advanced Text Mining*, InTech, 2012, 101-133. ISBN 980-953-307-228-4

"A Cooperative Approach to Web Crawler URL Ordering," Aravand Chandramouli, Susan Gauch, and Josh Eno. In *Human-Computer Systems Interaction, Backgrounds, and Applications 2*, Springer-Verlag, 2011, 343-357.

"User Profiles for Personalized Information Access," Susan Gauch, Mirco Speretta, Aravind Chadralmouli, and Alessandro Micarelli. In *Adaptive Web*, ed. Peter Brusilovsky and Alfred Kobsa, Ch. 2, Springer-Verlag, 2007, ISSN: 0302-9734, 54-89.

"Personalized Search on the World Wide Web," Alessandro Micarelli, Fabio Gasparetti, Filippo Sciarrone, and Susan Gauch. In *Adaptive Web*, ed. Peter Brusilovsky and Alfred Kobsa, Ch. 6, Springer-Verlag, 2007. ISSN: 0302-9734, 195-230.

"Ontology-Based User Profiles for Personalized Search," Susan Gauch, Mirco Speretta, and Alexander Pretschner. In *Ontologies: A Handbook of Principles, Concepts and Applications in Information Systems,* ed. Rajiv Kishore, Ram Ramesh, and Raj Sharman, Ch. 24, Springer-Verlag, September 2006. ISBN 0-387-37019-6, 665-694. 665-694.

"The VISION Digital Video Library Project," Susan Gauch, John. M. Gauch, and Kok Meng Pua. In *The Encyclopedia of Microcomputers*, Vol. 28, Supplement 7, Marcel Dekker, January 2002, 365-379.

"The VISION Digital Video Library Project," Susan Gauch, John. M. Gauch, and Kok Meng Pua. In *The Encyclopedia of Library and Information Science*, Vol. 68, Supplement 31, Marcel Dekker, August 2000, 366-381.

Refereed Conference Papers

"Analyzing Social Networks of XML Plays: Exploring Shakespeare's Genres," Lawrence Isaac Evalyn, Susan Gauch, and Manisha Shukla, *Digital Humanities 2018 (DH2018),* Mexico City, Mexico, June 26-29, 2019 (under review).

"Exploiting Link Differentiation in Linked Data Semantic Distance," Sultan Alfarhood, Kevin Labille, and Susan Gauch, *International Conference on Knowledge Engineering and Semantic Web (KESW 2017),* Szezecin, Poland, November 8-10, 2017, 175-191.

"Creating Domain-Specific Lexicons via Text Mining," Kevin Labille, Susan Gauch, and Sultan Alfarhood, *6th KDD Workshop on Issues of Sentiment Discovery and Opinion Mining (WISDOM 2017),* Halifax, Nova Scotia, Canada, August 14, 2017. "PLDSD: Propagated Linked Data Semantic Distance," Sultan Alfarhood, Susan Gauch, and Kevin Labille, *26th IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WET ICE) – Web2Touch Track: Semantic Technologies in Smart information Sharing and Web Collaboration,* Poznan, Poland, June 21-23, 2017, 278-283.

"Estimating Sentiment via Probability and Information Theory," Kevin Labille, Susan Gauch, and Sultan Alfarhood, *8th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (KDIR 2016),* Porto, Portugal, November 9-11, 2016, 121-129. **Best Paper Finalist**

"Social Network Analysis for Predicting Emerging Researchers," Syed Billah and Susan Gauch, *7th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (KDIR 2015),* Lisbon, Portugal, November 12-14, 2015, 27-35. **Best Student Paper Finalist**

"Traveltant: Social Network-Based Restaurant Recommender System," Sultan Alfarhood and Susan Gauch, *14th International Conference on WWW Internet (ICWI 2015)*, Dublin, Ireland, October 26-28, 2015, 47-54

"Conceptual Impact-Based Recommender System for CiteSeerˣ" Kevin Labille and Susan Gauch, *2nd Workshop on New Trends in Content-Based Recommender Systems (CBRecSys), associated with 9th ACM Conference on Recommender Systems (RecSys 2015),* Vienna, Austria, September 16-20, 2015, 50-53.

"Automatic Class Labeling for CiteSeerˣ," Surya Dhairya Kashireddy, Syed Masum Billah, and Susan Gauch, *IEEE/WIC/ACM International Conference on Web Intelligence (WI 2013),* Atlanta, GA, November 17-20, 2013, 241-245.

"Personalized News Recommendation Using Twitter," Nirmal Jonnalagedda and Susan Gauch, *2013 International Workshop on Web Personalization, Recommender Systems and Social Media (WPRSM'13)* joint with the *IEEE/WIC/ACM International Conference on Web Intelligence (WI 2013)*, Atlanta, GA, November 17, 2013, 21-25.

"Supporting Data Collection in Virtual Worlds," Hiep Luong, Dipesh Gautam, John Gauch, and Susan Gauch, *18th ACM Symposium on Virtual Reality Software and Technology (VRST) 2012*, Toronto, Canada, December 10-12, 2012. (poster)

"Social Network Analysis of Virtual Worlds," Greg Stafford, Hiep Luong, John Gauch, and Susan Gauch, *2012 International Conference on Active Media Technology*, Macao, China, December 4-7, 2012, 411-422. Also appears as Springer-Verlag Lecture Notes in Computer Science, Vol. 7669.

"Exploiting Social Networks for Publication Venue Recommendation," Hiep Luong, Susan Gauch, Tin Huynh, and Kiem Hoang, *Knowledge Discovery and Information Retrieval 2012 (KDIR 2012)*, Barcelona, Spain, October 4-7, 2012, 239-245.

"Scientific Publication Recommendations Based on Collaborative Citation Networks", Tin Huynh, Hiep Luong, Kiem Hoang, Susan Gauch, Loc Do and Huong Tran, *2012 Workshop on Adaptive Collaboration affiliated with the 2012 International Conference on Collaboration Technologies and Systems (AC/CTS 2012)*, May 21-25, 2012, Denver, CO, 316-321.

"Hybrid User Preference Models for a Virtual World," Josh Eno, Gregory Stafford, Susan Gauch, and Craig Thompson, *19th International Conference on User Modeling, Adaptation and Personalization (UMAP 2011)*, Girona, Spain, July 11-15, 2011, 87-98.

"Ontology Concept Enrichment via Text Mining," Qiang Wang, Susan Gauch, Hiep Luong, *IADIS International Conference on Internet Technologies and Society 2010,* Perth, Australia, November 29-December 1, 2010, 147-154.

"An Adaptive Ontology based Hierarchical Browsing System for CiteSeer_x," Nanhong Ye, Susan Gauch, Qiang Wang, Hiep Luong, *The Second International Conference on Knowledge and Systems Engineering*, Hanoi, Vietnam, October 7-9, 2010, 203-208.

"Linking Behavior in a Virtual World Environment," Josh Eno, Susan Gauch, Craig Thompson, *The Fifteenth International Conference on 3D Web Technology*, Los Angeles, CA, USA, July 24-25, 2010, 157-164.

"Using CiteSeer to Analyze Trends in the ACM's Computing Classification System," Mirco Speretta and Susan Gauch, *Third International Conference on Human System Interaction (HSI '10)*, Rzeszow, Poland, May 13-15, 2010, 571-577.

"A Cooperative Approach to Web Crawler URL Ordering," Aravind Chandramouli, Susan Gauch, and Josh Eno, *Third International Conference on Human System Interaction (HSI '10)*, Rzeszow, Poland, May 13-15, 2010, 556-562. **Best Paper Award: Web Track**

"Searching for the Metaverse," Joshua Eno, Susan Gauch, Craig Thompson, *ACM Symposium on Virtual Reality Software and Technology (VRST 2009)*, Kyoto, Japan, November 18-20, 2009, 223-226.

"Ontology Learning Through Focused Crawling and Information Extraction," Hiep Luong, Susan Gauch, and Qiang Wang, *The First International Conference on Knowledge and Systems Engineering (KSE 2009)*, Hanoi, Vietnam, October 13-17, 2009, 106-112.

"Conceptual Recommender System for CiteSeerX," Ajith Kodakateri Pudhiyaveetil, Susan Gauch and Hiep Luong, *3rd ACM Conference on Recommender Systems (RecSys 2009)*, New York, USA, October 22-25, 2009, 241-244.

"Intelligent Crawling in Virtual Worlds," Joshua Eno, Susan Gauch, and Craig Thompson, *3rd International Workshop on Distributed Agent-Based Retrieval Tools (DART 09)*, Milano, Italy, September 15, 555-558.

"Mining Hidden Concepts for Ontology Extension using Multivariate Probabilistic Modeling," Nanhong Ye, Ajith Pudhiyaveetil, and Susan Gauch, *IEEE/WIC/ACM International Conference on Web Intelligence (WI 09)*, Milano, Italy, September 15-18, 2009, 371-374.

"Enriching Concept Descriptions in an Amphibian Ontology with Vocabulary Extracted from WordNet," Hiep Phuc Luong, Susan Gauch, Mirco Speretta, *22nd IEEE International Symposium on Computer-Based Medical Systems (CBMS 2009)*, Albuquerque, USA, August 3-4, 2009, 106-1 – 106-6.

"Miology: a Web Application for Organizing Personal Domain Ontologies," Mirco Speretta, and Susan Gauch, *International Conference on Information, Process, and Knowledge Management (eKNOW 2009)*, Cancun, Mexico, February 1-7, 2009,159-161.

"Ontology-based Focused Crawling," Hiep Luong, Susan Gauch and Qiang Wang, *International Conference on Information, Process, and Knowledge Management (eKnow 2009)*, Cancun, Mexico, February 1-7, 2009, 123-128. **Best Paper Award**

"Using Text Mining to Enrich the Vocabulary of Domain Ontologies", Mirco Speretta and Susan Gauch, *IEEE/WIC/ACM International Conference on Web Intelligence*, Sydney, Australia, December 9-12, 2008, 549-552.

"Concept-Based Document Recommendations for CiteSeer Authors," Kannan Chandreasekaran, Susan Gauch, Praveen Lakkaraju, Hiep Luong *5th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH 2008)*, Hannover, Germany, July 28-August 1, 2008, 83-92.

"Using CiteSeer," Mirco Speretta, Susan Gauch, and Praveen Lakkaraju, *Joint Conference on Digital Libraries (JCDL 2008)*, Pittsburgh, PA, June 16-20, 2008, 468.

"Document Similarity Based on Concept Tree Distance," Praveen Lakkaraju, Susan Gauch, and Mirco Speretta, *19th International Conference on Hypertext and Hypermedia (Hypertext 2008)*, Pittsburgh, PA, June 19-21, 2008,127-132

"Automatic Ontology Identification for Reuse," Mirco Speretta and Susan Gauch, *Web Intelligence and Intelligent Agent Technology (WI/IAT 2007)*, Silicon Valley, USA, November 2-5, 2007, 419-422.

"The Amphibian Anatomical Ontology," Jennifer L. Leopold, Anne Maglia, L. Analia Pugener, and Susan Gauch, *8th International Congress of Vertebrate Morphology (ICVM8)*, Paris, France, July 16-21, 2007.

"The Amphibian Anatomical Ontology," Jennifer L. Leopold, Anne Maglia, L. Analia Pugener, and Susan Gauch, *Joint herpetology meetings: ASIH/SSAR/H, St. Louis, MO, July 11-16, 2007.*

"A Co-operative Web Services Paradigm for Supporting Crawlers," Aravind Chandramouli and Susan Gauch, *Recherche d'Information Assistée par Ordinateur (RIAO '07): Large-Scale Semantic Access to Content (Text, Image, Video and Sound)*, Pittsburgh, PA, May 30-June 1, 2007.

"Contextual Search Using Ontology-Based User Profiles," Vishnu Challum, Aravind Chandramouli, and Susan Gauch, *Recherche d'Information Assistée par Ordinateur (RIAO '07): Large-Scale Semantic Access to Content (Text, Image, Video and Sound*, Pittsburgh, PA, May 30-June 1, 2007.

"An Anatomical Ontology for Amphibians," Anne Maglia, Jennifer L. Leopold, L. Analia Pugener, and Susan Gauch, *Pacific Symposium on Biocomputing (PSB 2007): Session on Biodiversity Informatics: Managing Knowledge Beyond Humans and Model Organisms*, Wailea, HI, January 3-7, 2007, 367-378.

"Semi-Automatic Update of Existing Taxonomy using Text Mining," Susan Gauch and Aravind Chandramouli, *5th International Conference on Ecological Informatics (ISEI5)*, Santa Barbara, USA, December 4-7, 2006.

"A Comparison Between Nearest Neighbor and Regression Predictions In Free Text Evaluation," Nicholas Evangelopoulos and Susan Gauch, *36th Annual Meeting of the Decision Sciences Institute Meeting (DSI2005)*, San Francisco, CA, November 19-22, 2005, 18341-18346.

"Personalized Search based on User Search Histories," Mirco Speretta and Susan Gauch, *2005 IEEE/WIC/ACM International Conference on Web Intelligence (WI'05)*, Compiegne University of Technology, France, September 19-22, 2005, 622-628.

"Exploiting Hierarchical Relationships in Conceptual Search," Devanand Ravindran and Susan Gauch, *Thirteenth International Conference on Information and Knowledge Management (CIKM 2004)*, Washington, DC, November 8-13, 2004, 238-239.

"Hierarchical Text Classification," Ashwin Pulijala and Susan Gauch, *International Conference on Cybernetics and Information Technologies, Systems and Applications: CITSA 2004*, Vol. 1, Orlando, FL, July 21-25, 2004, 257-262.

"ChatTrack: Chat Room Topic Detection Using Classification," Jason Bengel, Susan Gauch, Eera Mittur, and Rajan Vijayaraghavan, *Second Symposium on Intelligence and Security Informatics (ISI-2004)*, Tucson, Arizona, June 10-11, 2004, 266 – 277.

"Improving Ontology-Based User Profiles," Joana Trajkova and Susan Gauch, *Recherche d'Information Assistée par Ordinateur (RIAO 2004)*, University of Avignon (Vaucluse), France, April 26-28, 2004, 380-389.

"Biodiversity Information Organization using Taxonomy (BIOT)," Susan Gauch, *National Conference on Digital Government Research (dg.o 2K02)*, Los Angeles, CA, May 20-28, 2002, 169-174.

"Personal Ontologies for Web Navigation," Jason Chaffee and Susan Gauch, *Ninth International Conference on Information and Knowledge Management (CIKM 2000)*, McLean, VA, November 6-11, 2000, 227-234.

Unrefereed Conference/Workshop Papers (7)

"Identifying Emerging Researchers using Social Network Analysis," Syed Billah and Susan Gauch, *INFORMS Annual Meeting (INFORMS 2014)*, San Francisco, CA, November 9-12, 2014.

"Conceptual Web Search," Alex Garrett and Susan Gauch, *US-Morocco Language Technology Research and Education Program: Project Startup and Team-Building Workshop*, Rabat, Morocco, May 30 – June 1, 2006, p. 13.

"Applying Human Language Technologies – Ontologies, Clustering, Classification – to Multi-Site Browsing," Mirco Speretta and Susan Gauch, *US-Morocco Language Technology Research and Education Program: Project Startup and Team-Building Workshop*, Rabat, Morocco, May 30 – June 1, 2006, p. 11.

"User Profiles for Browsing Biodiversity Information," Susan Gauch, *National Science Foundation BDEI PI meeting*, Washington DC, February 10-11, 2003.

"Biodiversity Information Organization using Taxonomy (BIOT)," Susan Gauch, *National Conference on Digital Government Research (dg.o 2K02)*, Los Angeles, CA, May 20-28, 2002, 169-174.

"Achievements of the Recent IDM Projects & DB/IR Fields," Jianwen Su and Susan Gauch National Science Foundation IDM PI Meeting, *Workshop on Information and Data Management: Research Agenda for the Future*, Chicago IL, March 5-7, 2000.

"Corpus Analysis for TREC-5 Query Expansion," Susan Gauch and Jianying Wang, *TREC-5: The 5th Annual Text REtrieval Conference*, Gaithersburg, MD, November 20-22, 1996, 537-546.

"Automatic Word Similarity Detection for TREC-4 Query Expansion," Susan Gauch and Meng Kam Chong, *TREC-4: The 4th Annual Text REtrieval Conference*, November 1-3, 1995, Gaithersburg, MD, 527-536.

Technical Reports (8)

"XML Classification Using Content and Structure," Swathy Giri, Aravind Chandramouli, and Susan Gauch, *Information and Telecommunication Technology Center*, Technical Report: ITTC-FY2004-TR-8646-37, University of Kansas, April 2007.

"Training a Hierarchical Classifier Using Inter-Document Relationships," Susan Gauch, Aravind Chandramouli, Shankar Ranganathan; *Information and Telecommunication Technology Center*, Technical Report: ITTC-FY2007-TR-31020-01; August 2006, University of Kansas.

"KeyConcept: A Conceptual Search Engine," Susan Gauch, Juan M. Madrid, Subhash Induri, Devanand Ravindran, and Sriram Chadlavada, *Information and Telecommunication Technology Center*, Technical Report: ITTC-FY2004-TR-8646-37, University of Kansas.

"Feature Reduction for Document Clustering and Classification," Stefan Rüger and Susan Gauch, *DTR 2000/8, Department of Computing, Imperial College London*, September 2000.

"Personalization on the Web," Alexander Pretschner and Susan Gauch, *Information and Telecommunication Technology Center*, Technical Report ITTC-FY2000-TR-13591-01.

"Experiments in Automatic Similarity Matrix Selection for Query Expansion," Susan Gauch and Satya Mahesh Rachakonds, *Information and Telecommunication Technology Center*, Technical Report: ITTC-FY97-TR-11100-3, University of Kansas.

"Tuning a Corpus Analysis Approach for Automatic Query Expansion," Susan Gauch and Jianying Wang, *Information and Telecommunication Technology Center, Technical Report*, Technical Report: ITTC-FY97-11100-2, March 1997, University of Kansas, March 1997.

"Intelligent Information Agents for the World Wide Web," Susan Gauch and Edgar Casasola, *Information and Telecommunication Technology Center*, Technical Report: ITTC-FY97-11100-1, University of Kansas, March 1997.

Invited Talks (6)

"Natural Language Processing – Techniques and Applications to Bioinformatics," Arkansas Bioinformatics Meeting, Little Rock, AR, April 24, 2018.

"Exploiting Ontologies for Personalized Search and Browsing," Susan Gauch, *Information and Library Sciences Research Luncheons*, University of North Carolina, Chapel Hill, October 9, 2015.

 "When is a rock not a rock: Conceptual Approaches to Personalized Search and Recommendations," Susan Gauch, *Acxiom TRESNet Conference*, Little Rock, AR, November 8, 2011.

"When is a rock not a rock: Conceptual Approaches to Personalized Search and Recommendations," Susan Gauch, *IBM Distinguished Speaker Series*, Department of Computer Science and Engineering, University of Notre Dame, May 13, 2010.

"When is a rock not a rock: Conceptual Approaches to Personalized Search, Browsing, and Recommendations," Susan Gauch, Keynote Address, *9th International Conference on Adaptivity, Personalization and Fusion of Heterogeneous Information (RIAO 2010)*, Paris, France, April 28, 2010.

"Multiple Facets of Personalization: The Person's Knowledge," Susan Gauch, Panel, *American Society for Information Science and Technology 2009 Annual Meeting (ASIS&T 2009)*, Vancouver, BC, November 6 – 11, 2009.

Research Funding

Principal Investigator

J.B. Hunt Innovation Center of Excellence, PI, Co-I: Xintao Wu, Detecting Customer Opinion Shift and its Causes, $79,508, 1/18 – 12/19.

National Science Foundation, PI, Co-Is: Hiep Luong and John Gauch, $200,000, Mapping Three-Dimensional Virtual Worlds, 9/10 – 8/12.

Cyberneutics, $113,000, Collaborative Automated Planning Environment for Reconstruction and Stabilization (CAPERS), 1/09 – 10/09.

National Science Foundation, $14,580, Supporting Students Attending the 2008 Adaptive Hypermedia Doctoral Consortium, 5/08 – 5/09.

National Science Foundation, $218,821, Semi-Automated Construction of an Ontology for Amphibian Morphology, 3/07 – 3/10. (collaborative with J. Leopold and A. Magli at University of Missouri-Rolla).

National Science Foundation, PI, $38,520, "U.S.-Morocco Workshop: Language Technology Research and Education Program: Project Startup and Team-Building, March 2006, Rabat, Morocco," 10/05-9/06.

National Science Foundation, PI, $229,992, Next Generation CiteSeer, 8/05 – 9/09, (collaborative with Lee Giles at Penn. State).

KTEC/ITTC, ChatTrack: Archiving and Classifying Chat Server Data, $15,531, 6/03 – 6/04.

KTEC/ITTC, SafeChat, $14,000, 6/02 – 6/03.

KTEC/ITTC, Conceptual Search Engine, $14,000, 9/02 – 5/03.

Today Communications, Quality Access to Online Health Information Based on User Profiles: Phase III, $14,767, 6/02 – 12/02

Today Communications, Quality Access to Online Health Information Based on User Profiles: Phase II, $39,767, 1/02 – 6/02.

National Science Foundation, PI, $99,820, Biodiversity Information Organization using Taxonomy (BIOT), 1/2001 – 5/2003.

Today Communications, Inc., PI, $177,326, "Quality Access to Online Health Information Based on User Profiles – Phase I," 1/2001 – 12/2001.

KTEC/ITTC, Personal Ontology Browsing Assistant, $20,000, 8/01-8/02.

KTEC/ITTC, Conceptual Search Engine, $20,000, 8/01-8/02

KTEC/ITTC, What-Where-When: Temporal Search For World Wide Web Resources, $19,414, 8/98 – 8/99.

National Science Foundation, CAREER Award, PI, $200,000. "Cooperative Agents for Conceptual Search and Browsing of World Wide Web Resources," 7/97-6/01.

National Science Foundation REU, Cooperative Agents for Conceptual Search and Browsing of World Wide Web Resources, $5,000, 7/98-6/99.

Kansas Electric Utilities Research Program, PI, $19,756. "KEURP-Link: Phase III," 5/97-8/97.

Worldwide Broadcasting Network, PI, $16,602. "Improved Information Retrieval and Value-added Automated Search Based on Closed Caption Text and Customer Profile," 5/18/97-8/18/97.

Center for Excellence in Computer Aided Software Engineering (CECASE), PI, $50,000. "VISION," 06/96-05/97.

Center for Excellence in Computer Aided Software Engineering (CECASE), PI, $17,500. "ProFusion," 6/96-12/96.

University of Kansas General Research Fund, PI, $7,416. "Data Discovery on the Information Highway," 8/95-5/96.

National Science Foundation Research Initiation Award, Information Technologies and Organizations Program, PI, $100,000. "A Testbed for the Application of Corpus Linguistics to Information Retrieval," 8/94-8/97.

Illustra Information Technologies Inc. Engines for Innovation University Grant Program, PI, $5,500. "Digital Video Library System," 7/94.

University of Kansas New Faculty General Research Program, PI, $5,000. "Word Similarity Calculations for Query Expansion ," 7/94-6/95.

Center for Excellence in Computer Aided Software Engineering (CECASE), PI, $23,642. "Content-Based Indexing of Video Segments," 6/94-5/95.

Co-Investigator

National Science Foundation, CRI. Co-I, $663,703, "A Platform to Connect Mobile Sensor Networks With Machine Learning," 9/2015-8/2018. PI: Michael Gashler (under review)

Cyberneutics, Co-I, $113,000, "Collaborative Automated Planning Environment for Reconstruction and Stabilization (CAPERS) Year Two," 12/09 – 11/10. PI: John Gauch

National Science Foundation STC, Co-I, $19,797,460, "Center for Polar Research and Remote Sensing," 06/05 – 06/10. PI: Prasad Gogenini

National Science Foundation, NSDL, Co-I, $585,115. "Collaborative Project: Assessing the User-base and Expanding the Usability/Reach of the Analytical Sciences Digital Library through Developmental Workshops," 10/04-10/07. PI: Cynthia Larive

National Science Foundation, ITR-Large Award, Co-I, $2,544,444. "SEEK: Enabling the Science Environment for Ecological Knowledge," 10/02-9/07. PI: James Beach

U.S. Army, Co-I, $300,000, "Intelligent Knowledge Management Environment," 02/01 – 01/ 04. PI: Joe Evans

National Science Foundation, Co-I, $964,913. "Ambient Computational Environments," 9/99 – 8/03. PI: Gary Minden

U.S. Dept. of Education, Co-I, $3,000,000. "An Academy: Linking Teacher Education to Advances in Research," 1/98-12/00. PI: Ed Meyen

U.S. Dept. of Education, Co-I, $140,000. "Way-Finding Agents for Locating Distributed Objects," 9/97-8/98. PI: Ron Aust

U.S. Dept. of Education, Co-I, $1,498,905. "Distributed Information Services for Contributing and Delivering Educational Resources," 8/95-8/98. PI: Ron Aust

Kansas Electric Utilities Research Program, Co-I, $80,797. "KEURP-Net: Phase 2," 08/95-08/96. PI: Douglas Niehaus

Kansas Electric Utilities Research Program, Co-I, $17,988. "KEURP-Net: Phase 1," 09/94-02/95. PI: Douglas Niehaus

National Science Foundation CISE Infrastructure Program, Co-I, $1,289,818. "DesignLab," 09/94-08/99. PI: Allen Ambler

University of Kansas Research Development Fund, co-I, $97,000. "Kansas Institute for Informatics," 01/94-12/96. PI: Gary Minden

National Science Foundation Research Opportunity Award DIR-8814522, Co-I, $23,608. "The Biological Knowledge Laboratory," 07/91-09/91. PI: Robert Futrelle

Technology Transfer Activities

IntelliSeek, Inc., Obiwan Agents, Technology Transfer License, $150,000, 10/00.

ProFusion L.L.C., ProFilter Technology Transfer License, $100,000, 01/00.

ProFusion L.L.C., ProFilter Technology Transfer License, $30,000, 04/97.

WorldWide Broadcasting Network, VISION Digital Video Library Technology Transfer License, $250,000, 01/97.

Teaching Experience

Ph.D. Dissertations Supervised

James Holliday, Spring 2022

Andrew Mackey, Spring 2022

Mohammed Alqahtani, Spring 2021

Reem Bager Al Saffar, expected Summer 2019

Mohammed Salah Ibrahim, expected Summer 2019

Omar A Salman Salman, expected Summer 2019

Kevin Labille, expected Spring 2019

Sultan AlFarhood, Spring 2017, "Exploiting Semantic Distance in Linked Open Data for Recommendation"

Josh Eno, co-advisor, Fall 2010, "An Intelligent Crawler for a Virtual World"

Mirco Speretta, Spring 2010, "Reusing Domain Ontologies"

Aravind Chandramouli, Fall 2007, "A Co-operative Web Services Paradigm for Crawler Support"

Kok Meng Pua, Spring 2002, "Feature-Based Video Sequence Identification"

Xiaolan Zhu, Summer 1999, "Incorporating Quality Metrics in Agent-Based Centralized/Distributed Information Retrieval on the World Wide Web"

Master's Theses Supervised

Marion Chiariglione, expected Spring 2020

Tarana Tasmin Bipasha, expected Fall 2019

Manishu Shukla, Summer 2018, "Theatrical Genre Prediction Using Social Network Metrics"

Shiva Theja Reddy Gopidi, Summer 2015, "Automatic User Profile Construction for a Personalized News Recommender System"

Ann Smittu Joseph, Fall 2013, " Conceptual, Impact-Based Publications Recommendations"

Syed Masum Billah, Fall 2013, "Identifying Emerging Researchers using Social Network Analysis"

Dipesh Gautam, Fall 2013, "A Bandwidth-Conserving Architecture for Crawling Virtual Worlds"

Gregory Stafford, Fall 2013, "Analysis of Social Networks in a Virtual World"

Shiva Nirmal Jonnalagedda, Spring 2013, "Personalized News Recommender System Using Twitter"

Qiang Wang, Fall 2010, "Ontology Learning through Text Mining"

Nanhong Ye, Summer 2010, "Ontology-Based Browsing for CiteSeer$_x$"

Ajith Kodakateri Pudhiyaveetil , Summer 2010, "Conceptual Recommender System for CiteSeer$_x$"

Kannan Chandreasedaran, Fall 2007, "Conceptually Based Author Recommender System"

Atchutharamavivek Pakalapati, Summer 2007, "Improving Indexing Efficiency through Incremental Indexing"

Praveen Lakkaraju, Summer 2007, "Document Similarity based on Concept Tree Distance"

Krishna Priya Kotcherlakota, Spring 2007, "Topic Specific Spider for Taxonomic Documents"

Chris Lingor, Spring 2007, "Summary Extraction from Chat Data"

Srikanth Pyneni, Spring 2006, "Verifying User Authenticity in Chat Rooms"

Tee Koon Yeow, Summer 2005, "Dimensional Information-Based Web Documents Segmentation"

Ryan Sheahan, Summer 2005, "Improving Retrieval Times in the Temporal Search Engine"

Mirco Speretta, Summer 2005, "Personalizing Search Based on User Search Histories"

Doug Herbers, Summer 2005, "Collaborative Email Filtering"

Jan Grzymala-Busse, Spring 2005, "Web Personalization Using Direct Concept Matching"

Eera Mittur, Spring 2005, "Segmentation of IRC Chat-Room Data into Topically-Cohesive Sections"

Swathy Giri, Fall 2004, "XML Classification"

Shankar Ranganathan, Spring 2004, "Text Classification Combining Hierarchical and Clustering Approaches"

Devanand Ravindran, Spring 2004, "KeyConcept: Exploiting Hierarchical Information in Conceptual Search"

Vishnu Challam, Spring 2004, "Ontology-Based User Profiles for Contextual Search"

Ganesh Shankaran, Spring 2004, "Topic Detection in Chat Sessions"

Asif Iqbal, Fall 2003, "A Mechanism for Intellectual Property Rights Discovery in a Digital Content Distribution System"

Nicholas Evangelopoulos, Fall 2003, "Intelligent Exam Grading: Text-Mining Free-Text Answers"

Joana Trajkova, Summer 2003, "Improving Ontology-Based User Profiles"

Rajan Vijayraghavan, Spring 2003, "An Architecture for Logging and Searching Chat Messages"

Ivan Coro, Fall 2000, "Distributed Search Architectures for Searching for Information on the Web"

Jason Chaffee, May 2000, "Personal Ontologies for Web Navigation"

Luis Masaya, Spring 2000, "Scalability in a Meta-Search Engine"

Chanaka Liyanaarachchi, Fall 1999, "Distributed Search Architectures for Searching for Information on the Web"

Wen-Chi Wang, Fall 1999, "Ontology-Based Temporal Site Monitoring"

Ben Phelps, Summer 1999, "Personalized Information Filtering Using a Combination of Methods"

Alexander Pretschner, Summer 1999, "Ontology-Based Personalized Search"

Ricardo Aravena, Spring 1999, "Multiple-Field Searching Across Multiple Remote Databases on the Web"

Lutz Gerhard, Spring 1999, "Visualizing Multi-Dimensional Concept Hierarchies"

Enlian Chong, Spring 1999, "Rapid Data-Driven Database Client/Server System Prototyping"

Bhaswati Ray, Summer 1998, "Analysis of Closed Caption Based Segmentation of Digital Video"

Manisha Gandhi, Summer 1998, "Design and Analysis Of Meta-data Mapping Algorithms – Providing Interoperability between Asymmetric Meta-data Formats"

Tapash Majumder, Summer 1998, "Implementation and Evaluation of Different Architectures for Distributed Meta-Search on the WWW"

Mousheng Xu, Spring 1998, "Associated Scientific Information Retrieval From Non-centralized Distributed Databases"

Edgar Casasola, Spring 1998, "ProFusion Personal Assistant: An Agent for Personalized Information Filtering on the WWW"

Aravind Saraff, Fall 1997, "VISION: Design and Implementation of an Interoperability Architecture"

Satya Mahesh Rachakonda, Fall 1997, "Application of Corpus Analysis to Multiple Databases"

Mario Gomez, Summer 1997, "Improving the Space Utilization of Trie-Based Search Engines by Using the Adaptive Trie"

Yizhong Fan, Summer 1997, "An Adaptive Multi-Agent Architectrure for the ProFusion Meta-Search System"

Kok Meng Pua, Spring 1995, "Prototyping the VISION Digital Video Library System"

Master's Projects Supervised

Surya Dhairya Kashireddy, Summer 2013, "Automatic Class Labeling for CiteSeer^x"

Vinay Reddy, Summer 2007, "Web-Based Course Conflict Checker"

Samala Vandana, Spring 2007, "Information Extraction from Taxonomic Literature"

Suman Kansakar, Spring 2006, "Syngraph-A Relational Database Application"

Srinath Vaidyanathan, Spring 2006, "Contextual Search Architecture"

Vinod Muralidhar, Spring 2006, "HAWZO.com – A Client-Server Based P 2 PE-Commerce System for Online Book Lending"

Ajay Ramamurthy, Spring 2006," Dynamic Tracking and Profiling of Chat Rooms and Users"

Vijay Ramamurthy, Spring 2006, "Calendar Tool for Web-based Course Scheduling System"

Chia-Chi Chang, Fall 2005, "Web Scheduling"

Shivashankar Ponnambalam, Fall 2005, "Automated File Transfer and Use in KeyConcept Search"

Gnana Deepti Mandava, Summer 2005, "Web-based Course Scheduling"

Mei Lui, Spring 2004, "Information Retrieval Evaluation System"

Aravind Chadramouli, Spring 2004, "Incorporating User Profiles in KeyConcept Search"

Vikram Chellappa, Spring 2004, "Content-Based Searching with Relevance Ranking for Learning Objects"

Suchit Batheja, Spring 2004, "The Temporal Search Engine – A Time-Based Query System"

Syed Ubayeedurrahman, Spring 2004, "Intelligent Tagger for E-Learning"

Naveen Nelapudi, Spring 2004, "Incremental Learning Object Similarity Calculation"

Anand Madhavan, Spring 2004, "Telemetry and Data Handling model for KUTESat"

Saikumar Sanivarapu, Fall 2003, "Beta-Cell Signaling"

Ashwin Pulijala, Fall 2003, "Hierarchical Text Classification"

Pavan Ganjam, Fall 2003, "Web-Based Concept Hierarchy Viewer"

Subhashiv Induri, Fall 2002, "Experiments on Automatic Text Categorization in KeyConcept"

Praveen Sirivolu, Fall 2002, "Automatically Capturing User Document Contents"

Ajitha Aarcot, Fall 2002, "An Extensible Framework for Capturing User Activity in Windows"

Solomon Nagelli, Fall 2002, "Indexing and Retrieving Chat Messages"

Kiran CSK Kumar, Fall 2002, "A Generic Spider for Capturing Online Ontologies"

Lunardi Teguh, Spring 1997, "Experiments in Speech Recognition From Noizy Audio Sources"

Meng Kam Chong, Fall 1995, "Corpus Linguistics Techniques Applied to Large Data Sets"

Master's Students Supervised-Non-Thesis

Vesa Pupovci, Spring 2018

John Reinke, Spring 2002

Chi Lee, Spring 2002

Venkata Pillarisetti, Spring 2002

Xiongfei Yu, Fall 2001

Sujan Pandaram, Spring 2001

Yuxia Li, Spring 2001

Ekta Agarwal, Spring 2001

Vijay Subramanian, Spring 2000

Winston Heng, Spring 1998

Amarendar Sirikonda, Fall 1998

Jianying Wang, Fall 1996.

Honor's Students Supervised

Zane Turner, expected Fall 2019

Brandon Cox, expected Fall 2019

Brady Gilleran, expected Spring 2019

Kaitlin McKenzie, Spring 2019, "Arkansas' Coding for All – Is it Really Reaching All Students?"

Adan Rutiaga, Fall 2018

Preston Evans, Spring 2017, "Generation and Analysis of a Social Network: *Hamlet*"

Kanatbay Bektemirov, Summer 2015, "Tweetement: Pseudo-Relevance Feedback for Twitter Search"

John Patrick Anderson, Fall 2011, "WebTailor: Internet Service for Salient and Automatic User Interest Profiles"

Courses Taught at the University of Arkansas

Spring 2019	CSCE 4523	Programming Foundations I
Fall 2018	CSCE 5533	Advanced Information Retrieval
Spring 2018	CSCE 2004	Programming Foundations I
Fall 2017	CSCE 5543	Statistical Natural Language Processing
Spring 2017	CSCE 4523	Database Management Systems
	CSCE 5533	Advanced Information Retrieval
Fall 2016	CSCE 4523	Database Management Systems
Spring 2015	CSCE 2004	Programming Foundations I
Fall 2014	CSCE 4013	Information Retrieval
Spring 2014	CSCE 2004	Programming Foundations I
Fall 2013	CSCE 5533	Advanced Information Retrieval
Spring 2013	CSCE 5013	Statistical Natural Language Processing
Fall 2012	CSCE 2004	Programming Foundations I
Spring 2012	CSCE 5013	Advanced Information Retrieval
Fall 2011	CSCE 2004	Programming Foundations I
Spring 2011	CSCE 3193	Programming Paradigms
Fall 2010	CSCE 2004	Programming Foundations I
Spring 2010	CSCE 4013	Information Retrieval
Fall 2009	CSCE 2004	Programming Foundations I

Spring 2009	CSCE 5013	Advanced Information Retrieval
Fall 2008	CSCE 2001L	Programming Foundations I lab
	CSCE 2003	Programming Foundations I
Spring 2008	CSCE 5013	Advanced Information Retrieval

Courses Taught at the University of Kansas

Spring 2007	EECS 268	Programming II
Fall 2006	EECS 690	Introduction to Information Retrieval
	EECS 767	Information Retrieval
Spring 2006	EECS 368	Programming Language Paradigms
	EECS 800	Statistical Natural Language Processing
Fall 2005	EECS 647	Introduction to Databases
Spring 2005	EECS 368	Programming Language Paradigms
	EECS 767	Information Retrieval
Fall 2004	EECS 647	Introduction to Databases
Spring 2004	EECS 368	Programming Language Paradigms
	EECS 767	Information Retrieval
Fall 2003	EECS 690	Introduction to Information Retrieval
	EECS 848	Software Engineering II
Spring 2003	EECS 368	Programming Language Paradigms
	EECS 767	Information Retrieval
Fall 2002	EECS 800	Statistical Natural Language Processing
Spring 2002	EECS 368	Programming Language Paradigms
	EECS 767	Information Retrieval
Fall 2001	EECS 268	Programming II
	EECS 848	Software Engineering II

Spring 2001	EECS 168	Programming I
	EECS 767	Information Retrieval
Spring 2000	EECS 647	Introduction to Databases (2 sections)
	EECS 800	Advanced Databases
Fall 1999	EECS 767	Information Retrieval
Spring 1999	EECS 647	Introduction to Databases
Fall 1998	EECS 248	Structured Programming
	EECS 848	Software Engineering II
Spring 1998	EECS 248	Structured Programming
	EECS 767	Information Retrieval
Fall 1997	EECS 148	Algorithmic Problem Solving
	EECS 848	Software Engineering II
Spring 1997	EECS 647	Introduction to Databases
	EECS 700	Information Retrieval
Fall 1996	EECS 148	Algorithmic Problem Solving
	EECS 848	Software Engineering II
Spring 1996	EECS 148	Algorithmic Problem Solving
	EECS 800	Information Retrieval
Fall 1995	EECS 248	Structured Programming
	EECS 848	Software Engineering II
Fall 1994	EECS 248	Structured Programming
Spring 1994	ECE 248	Structured Programming
	EECS 800	Text Retrieval Systems
Fall 1993	ECE 248	Structured Programming

Courses Taught at Wellesley College

Spring 1991	Introduction to Programming
	Programming Languages
Fall 1990	Introduction to Programming
	Data Structures
Spring 1990	Introduction to Programming
	Natural Language Processing
Fall 1989	Introduction to Programming
	Artificial Intelligence