Ryan G. Benton

Education:

- Ph.D in Computer Science, May 2001, University of Louisiana at Lafayette
- M.S. in Computer Science, May 1997, University of Louisiana at Lafayette
- B.S. in Computer Information Systems, May 1995, Loyola University New Orleans

Professional History:

- Assistant Professor, School of Computing, University of South Alabama, August 2015 present
- Research Scientist, Informatics Research Institute, University of Louisiana at Lafayette, July 2014 July 2015
- Research Scientist, Center for Visual and Decision Informatics, University of Louisiana at Lafayette, February 2012 June 2014
- Research Scientist, Center for Advanced Computer Studies, University of Louisiana at Lafayette, January 2002 January 2012
- Director of Research, Star Software Systems Corporation, Warner Robins, Georgia, November 2011 June 2005

Professional Memberships:

- Senior Member, Institute of Electrical and Electronics Engineers (IEEE) and IEEE Computer Society
- Member, Association for Computing Machinery (ACM)
- Member, Association for the Advancement of Artificial Intelligence
- Member, Association for Information Systems

Professional Activities:

- Reviewer, Computers and Systems, 2017 present.
- Reviewer, International Journal of Data Mining and Bioinformatics, 2017 present.
- Program Committee, IEEE International Conference on Data Mining, 2017.
- Reviewer, IEEE's Transactions on Big Data, 2016 present.
- Reviewer, Information Sciences, 2016 present.
- Reviewer, ACM Transactions on Internet Technology, 2016 present.
- Chair, IEEE Computer Science Society, IEEE Lafayette Section, 2011 2015.
- Proceedings Chair, IEEE/WIC/ACM International Conference on Web Intelligence, 2013.
- Proceedings Chair, IEEE/WIC/ACM International Conference on Intelligent Agent Technology, 2013.
- Program Committee, IEEE International Conference on Granular Computing, 2011 and 2012.
- Program Committee, IEEE International Conference on Computational Science and Engineering, 2012.
- Program Committee, IARIA International Conference on Data Analytics, 2012.
- National Science Foundation CISE/SBE AC Subcommittee on Research Portfolio Analysis, 2010.
- Program Committee, IEEE Symposium on Foundations and Practice of Data Mining, 2010.
- Co-Chair, Sponsorship Committee, 5th International Conference on Data Mining, 2005.
- Non-Committee Reviewer, Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing, 2005.
- External Reviewer for Workshop on Multimedia Information Systems, 2001.
- Additional Reviewer for 13th International Conference on Industrial and Engineering Application of Artificial Intelligence and Expert Systems, 2000.

Grants/Contract:

- "Data Driven Prognostics", STTR project funded by Missile Defense Agency. Principal Investigator: **Ryan Benton**. Co-PI: Chee-Hung Henry Chu. Amount: \$70,000. September 2003 March 2004.
- "SBIR Phase I: Automated Image Annotation", funded by National Science Foundation. Principal Investigator: **Ryan Benton**. Co-PIs: Biren Shah and Vijay V. Raghavan. Amount: \$100,000. January 1, 2005 June 30, 2005.
- "Open Source Analytical Tools for Geospatial Data Analysis", funded by State of Louisiana, Governor's Information Technology Initiative (GITI). Principal Investigator: **Ryan Benton**. Co-PIs: Xiaoduan Sun and Emad Habib. July 1, 2007 June 30, 2010.
- "Performance Evaluation of Highway Infrastructure Using Image and Video Data", funded by State of Louisiana, Governor's Information Technology Initiative (GITI). Principal Investigator: Chee-Hung Henry Chu. Co-PIs: Xiaoduan Sun and **Ryan Benton**. July 1, 2007 June 30, 2010.
- "Automated Construction of 3-D Road Models from Right-of-Way Video", funded by Louisiana Transportation Research Center. Principal Investigator: **Ryan Benton**. Co-PIs: Xiaoduan Sun and Chee-Hung Henry Chu. Amount: \$29,621. January 1, 2008 June 30, 2009.
- "GE Exploratory Work in Alzheimer's Disease Prediction and Asset Allocation/Reallocation", funded by GE HealthCare, Principal Investigator: Vijay Raghavan. Co-PIs: **Ryan Benton**, Chee-Hung Henry Chu and Kemal Efe. Amount: \$33,000. March 1, 2008 December 31, 2009.
- "Web 3.0 and Beyond: Enhancement of the Laboratory for Internet Computing for the Future Web Generation", funded by the Louisiana Board of Regents Support Fund. Principal Investigator: Vijay Raghavan. Co-PIs: **Ryan Benton**, Chee-Hung Henry Chu, and Zonghuan Wu. Amount: \$77,000. July 1, 2009 June 30, 2010.
- "LI Proposal: Parallel Algorithms for Large Scale Data Clustering", funded by the LONI Institute. PI: Vijay V. Raghavan, Co-PIs: **Ryan Benton**, Raju Gottumukkala, Ramesh Kolluru, and Box Leangsuksun. April 1, 2010 March 31, 2011.
- "Collaborative Research: Interactive Information Extraction, Structuring and Visualization in a Research Portfolio", contract from the National Science Foundation. Principal Investigator: Vijay V. Raghavan. Co-PI: **Ryan Benton**. Amount: \$12,480. May 10, 2010- October 31, 2010.
- "I/UCRC Phase I: Center for the Visual and Decision Informatics (CVDI)", funded by the National Science Foundation. Principal Investigator: Vijay V. Raghavan. Co-PIs: **Ryan Benton**, Carolina Cruz-Neira, Raju Gottumukkala, and Ramesh Kolluru. Amount: \$390,584 (to date). February 15, 2012 January 31, 2017.
- "Social Media for Decision Informatics with Application to Emerging Events", funded by the CVDI Industry Advisory Board, PI: **Ryan Benton** Co-PI: Chaomei Chen, Jian Chen and Raju Gottumukkala. Amount: \$77,000. July 1, 2012 June 30, 2013.
- "I/UCRC FRP: Collaborative Research: Fundamental Research in Visualization-based Gap Analysis and Link Prediction", funded by the National Science Foundation. Principal Investigator: Vijay V. Raghavan. Co-PI: **Ryan Benton**. Amount: \$100,000. August 1, 2013 July 31, 2015.
- "A Spatio-Temporal Data Mining Approach for Fraud Detection", funded by the CVDI Industry Advisory Board, PI: Jian Chen. Co-PI: **Ryan Benton** and Raju Gottumukkala. Amount: \$77,000. July 1, 2013 June 30, 2014.
- "Large-scale Social Media Analytical Tools with Application to Detecting Emerging Events", funded by the CVDI Industry Advisory Board, PIs: **Ryan Benton** and Xiaohua Tony Hu. Co-PI: Wiemao Ke. Amount: \$121,822. July 1, 2013 June 30, 2014.
- "A Predictive Analytics Framework for Spatio-Temporal Hotspots", funded by the CVDI Industry Advisory Board, PI: Jian Chen. Co-PI: **Ryan Benton** and Raju Gottumukkala. Amount: \$69,707. July 1, 2014 June 30, 2015.

- "Analyzing, Modeling, and Summarizing Social Media and Linked Data Sets", funded by the CVDI Industry Advisory Board, PI: Xiaohua Tony Hu. Co-PI: **Ryan Benton**. Amount: \$48,000. July 1, 2014 June 30, 2015.
- "MRI: Development: A Distributed Visual Analytics Sandbox for High Volume Data Streams", funded by the National Science Foundation. Principal Investigator: Raju Gottumukkala. Co-PI: **Ryan Benton**, Christoph Borst, Dmitri Perkins (left 8/2015), Magdy Bayoumi (joined 8/2015), and Vijay Raghavan. Amount: \$515,998. August 1, 2014 July 31, 2018.
- "CC*IIE Networking Infrastructure: Cyberinfrastructure Creation of Science DMZ at UL Lafayette", funded by the National Science Foundation. Principal Investigator: Ben Blundell. Co-PI: **Ryan Benton**, Raju Gottumukkala, Arun Lakhotia, and Joseph Neigel. Amount: \$491,513. October 1, 2014 September 30, 2016.
- "Predicting Future Relations: Incremental and Robust Link Prediction", funded by the CVDI Industry Advisory Board, PI: Vijay V. Raghavan. Co-PIs: **Ryan Benton**, Christoph Borst, and Raju Gottumukkala. Amount: \$82,435. July 1, 2015 June 30, 2016.
- "Comparative Knowledge Discovery: Analyzing, Understanding and Visualizing Rankings", funded by the CVDI Industry Advisory Board, PI: Vijay V. Raghavan (U.S. Lead), Moncef Gabbouj (Finnish Lead). Co-PIs: **Ryan Benton**, Christoph Borst, Raju Gottumukkala, Ahmad Iftikhar, Alexandros Iosifidis, and Mehmet Tozal. Amount \$64,778 (U.S. IAB) and €115,000 (Finnish IAB). July 1, 2016 June 30, 2017.

Publications:

Book Chapters

- **R. Benton**, "Effective Removal of Noisy Data via Batch Effect Processing", Bioinformatics in microRNA Research, Jingshan Huang, Glen M. Borchert, Dejing Dou, Jun Huan, Wenjun Lan, Ming Tan, and Bin Wu, Editors, Springer, pp. 187-196, 2017.
- S. Singh, **R. Benton**, A. Singh, and A. Singh, "Machine Learning Techniques in Exploring micro-RNA Gene Discovery, Targets, and Functions", Bioinformatics in microRNA Research, Jingshan Huang, Glen M. Borchert, Dejing Dou, Jun Huan, Wenjun Lan, Ming Tan, and Bin Wu, Editors, Springer, pp. 211-224, 2017.
- Y. Xie, T. Johnsten, V. V. Raghavan, **R. G. Benton**, and W. Bush, "A Comprehensive Granular Model for Decision Making with Complex Data", Granular Computing and Decision-Making: Interactive and Iterative Approaches, Witold Pedrycz and Shyi-Ming Chen, Editors, Springer, pp. 33-46, 2015.
- B. Shah, **R. Benton**, Z. Wu, V. Raghavan, "Automatic and Semi-automatic Techniques for Image Annotation", Semantic-based Visual Info. Retrieval, Yu-Jin Zhang, Editor, Idea Group Publishing, pp. 112-134, 2007.

Special Report to the National Science Foundation

 V. Raghavan, Y. Xie, T. Johnsten, R. Benton, B. Lemoine, D. Difallah, "Concept Map-based Organized for REsearch Portfolios (C-MORE)", in CISE and SBE AC Subcomittee on Discovery in a Research Portfolio: Tools for Structuring, Analyzing, Visualizing and Interacting with Proposal and Award Portfolios, 20 pages, Nov. 2011.

Journal

- T. Johnsten, L. Fain, L. Fain, **R. Benton**, E. Butler, L. Pannell, and M, Tan, "Exploiting Multi-Layered Vector Spaces for Signal Peptide Detection", International Journal of Data Mining and Bioinformatics, Vol. 13, No. 2, 141-157, 2015.
- M. S. Ayhan, **R. G. Benton**, V. V. Raghavan, and S. Choubey, "Exploitation of 3D Stereotactic Surface Projection for Predictive Modeling of Alzheimer's Disease", in International Journal of Data Mining and Bioinformatics, Vol. 7, No 2, pp. 146-165, 2013.
- G.-L. Feng, I. Jangjaimon and **R. Benton**, "Fast Wireless Network Coding for Real-time data", in Communications in Information Science and Management Engineering, Vol 2., No. 12, pp. 71-95, 2012.

- V. V. Raghavan, **R. G. Benton**, T. Johnsten, and Y. Xie, "Representations for Large-scale Sequence Data Mining: A Tale of Two Vector Space Models", in International Conference on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing, pp. 15-25, October 11-14, 2013.

Referred Papers for Conferences/Workshops

- M. Van Devender, W. Glisson, **R. Benton**, and G. Grispos, "Understanding De-identification of Healthcare Big Data", in Americas Conference on Information Systems, Boston, Massachusetts, **accepted**, 10 pages, August 10-12, 2017.
- S. Katragadda, **R. Benton**, and V. Raghavan, "Sub-Event Detection from Tweets", in IEEE International Joint Conference on Neural Networks, Anchorage, Alaska, pp. 2128-2135, May 14-19, 2017.
- S. Katragadda, **R. Benton**, and V. Raghavan, "Framework for Real-Time Event Detection using Multiple Social Media Sources", 50th Annual Hawaii International Conference on System Sciences, pp. 1716-1725, January 3-7, 2017.
- S. Katragadda, **R. Benton**, S. Virani, and V. Raghavan, "Detection of Event Onset using Twitter", in IEEE International Joint Conference on Neural Networks, Vancouver, Canada, 1539-1546, July 24-29, 2016.
- S. Katragadda, H. Karnati, M. Pusala, V. Raghavan, and **R. Benton**, "Detecting Adverse Drug Effects Using Link Classification on Twitter Data", IEEE International Conference on Bioinformatics and Biomedicine, Washington D.C., 675-679, November 9-12, 2015.
- S. Hsu, **R. Benton**, and R. Gottumukkala, "Real-Time Flu Monitoring System and Decision Informatics", in *Hawaii International Conference on System Sciences*, Kauai, Hawaii, pp. 2794-2803, January 5-8, 2015.
- T. Johnsten, S. Alihamad, A. Kannalath, and **R. G. Benton**, "Targeted Action Rule Discovery", in International Conference on Machine Learning and Applications, Miami, Florida, 348-353, December 4-7, 2013.
- J. Lavergne, **R. Benton**, and V. V. Raghavan, "DynTARM: An In-Memory Data Structure for Targeted Strong and Rare Association Rule Mining Over Time-Varying Domains", in IEEE/WIC/ACM International Conference on Web Mining, Atlanta, Georgia, pp. 298-306, November 17-20, 2013.
- **R. G. Benton**, S. Choubey, D. G. Clark, T. Johnsten, and V. V. Raghavan, "Diagnosis and Grading of Alzheimer's Disease via Automatic Classification of FDG-PET Scans", in International Conference on Brain and Health Informatics, Maebashi, Japan, pp. 266-276, October 29-31, 2013.
- M. S. Ayhan, **R. G. Benton**, V. V. Raghavan, and S. Choubey, "Composite Kernels for Automatic Relevance Determination in Computerized Diagnosis of Alzheimer's Disease", in International Conference on Brain and Health Informatics, Maebashi, Japan, pp. 126-137, October 29-31, 2013.
- J. Lavergne, **R. Benton**, and V. V. Raghavan, "TRARM-RelSup: Targeted Rare Association Rule Mining Using Itemset Trees and the Relative Support Measure", in 20th International Symposium on Methodologies for Intelligent Systems, Vancouver, Canada, Macau, pp. 61-70, December 4-7, 2012.
- J. Lavergne, **R. Benton**, and V. V. Raghavan, "Min-Max Itemset Trees for Dense and Categorical Datasets", in 20th International Symposium on Methodologies for Intelligent Systems, Vancouver, Canada, Macau, pp 51-60, December 4-7, 2012.
- M. S. Ayhan, **R. G. Benton**, V. V. Raghavan, and S. Choubey, "Utilization of Domain-Knowledge for Simplicity and Comprehensibility in Predictive Modeling of Alzheimer's Disease", in International Workshop on Multiscale Biomedical Imaging Analysis, held in conjunction with IEEE International Conference on Bioinformatics and Biomedicine, Philadelphia, Pennsylvania, pp. 265 272, October 4-7, 2012.
- D. Difallah, **R. G. Benton**, T. Johnsten and V. Raghavan, "FAARM: Frequent Association Action Rules Mining Using FP-Tree", in Workshop on Domain Driven Data Mining, part of 11th IEEE International Conference on Data Mining Workshops, Vancouver, Canada, pp. 398-404, December 11, 2011.
- G.-L. Feng, I. Jangjaimon and **R. Benton**, "A Class of Wireless Network Coding Schemes", IEEE International Conference on Electro/Information Technology, Mankato, Minnesota, 6 pages, May 15-17, 2011

- C. Akkoç, T. Johnsten and **R. Benton**, "Multi-layered Vector Spaces for Classifying and Analyzing Biological Sequences", International Conference on Bioinformatics and Computational Biology, New Orleans, pp. 160-166, March 23-25, 2011.
- M. S. Ayhan, R. Benton, V. V. Raghavan, and S. Choubey, "Exploitation of 3D Stereotactic Surface Projection for Automated Classification of Alzheimer's Disease According to Dementia Levels", IEEE International Conference on Bioinformatics and Biomedicine, Hong Kong, pp. 516-519, December 18-21, 2010.
- B. Lemoine, S. Rayburn, **R. Benton** and ADNI, "Data Fusion and Feature Selection for Alzheimer's Diagnosis", International Conference on Brain Informatics, Toronto, Canada, pp. 320-327, August 28-30, 2010.
- M. Prachyabrued, T. Roden, and **R. Benton**, "Procedural generation of stylized 2D maps", Proceedings of the International Conference on Advances in Computer Entertainment Technology (ACE 2007), Salzburg, Austria, pp. 147-150, June 13-15, 2007.
- **R. Benton** and C. H. Chu, "Camera Pose Estimation by an Artificial Neural Network", Proceedings of the 2006 International Conference on Neural Information Processing, Hong Kong, pp. 604-611, October 3-6, 2006.
- **R. Benton** and C. H. Chu, "Soft Computing Approach to Steganalysis of Digital Images", IEEE International Conference on Information Technology: Research and Education, Hsinchu, Taiwan, pp. 105-109, June 27-30, 2005.
- S. Karnatapu, K. Ramachandran, Z. Wu, B. Shah, V. Raghavan and **R. Benton**, "Estimating Size of Search Engines in an Uncooperative Environment", Proceedings of the 2nd International Workshop on Web-based Support Systems, Beijing, China, pp. 81-87, September 20, 2004.
- **R. Benton**, M. Kubat, and R. Loganantharaj, "Meta-Classifiers and Selective Superiority", Proceedings of the 13th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, New Orleans, Louisiana, pp. 434-442, June 19-22, 2000.
- R. Loganantharaj and **R. Benton**, "Automatic Discovery of Clusters", Proceedings of the ISCA 8th International Conference on Intelligent Systems, Denver, Colorado, pp. 45-48, June 24-26, 1999.
- N. Pissinou, **R. Benton**, B. Bhagyavati, and S. Kurkovsky, "A Roadmap to the Utilization of Intelligent Information Agents: Are Intelligent Agents the link between the Database and Artificial Intelligence Communities?", Proceedings of the 1997 IEEE Knowledge & Data Engineering Exchange Workshop, Newport Beach, California, pp. 196-205, pp. 196-205, November 4, 1997.
- **R. Benton**, A. Ganjoo, B. Lumetta, D. Spillman, and J. Ring, "Adaptive Wavelet Transforms of Singular and Chaotic Signals", Proceedings of the SPIE Wavelet Applications III, Orlando, Florida, pp. 136-143, April 8-12, 1996.
- **R. Benton**, "Using Genetic Algorithms to Improve Interpretation of Satellite Data", Proceedings of the 33rd Annual ACM Southeast Conference, Clemson University, South Carolina, pp. 143-145, March 17-18, 1995.

Posters

- M. S. Ayhan, **R. Benton**, V. V. Raghavan, and S. Choubey, "Determining Relevant Features Based on 3D Stereotactic Surface Projection to Detect Dementia Caused by Alzheimer's Disease", 7th Annual Biotechnology and Bioinformatics Symposium, Lafayette, Louisiana, pp. 91-92, October 14-15, 2010.

Technical Reports

- V. Raghavan, **R. Benton**, H. Chu, T. Johnston, and S. Choubey, "Patient Early Health Prediction: Datadriven Prognosis of Alzheimer's Disease", GE Healthcare, 35 pages, January 12, 2009.

Invited Presentations:

- "Real-Time Event Detection Using Multiple Social Media Sources", Software Protection and Exploitation Research Group, University of South Alabama, Feb 15, 2017.

- "Framework for Real-Time Event Detection Using Multiple Social Media Sources", Software Protection and Exploitation Research Group, University of South Alabama, Jan 20, 2017.
- "Exploiting Multi-Layered Vector Spaces for Malware Detection", with Jeffrey T. McDonald, Digital Forensics Research Group, University of South Alabama, Sep 14, 2016. Lightening talk (10 minutes).
- "Virtual Machine Analysis", Digital Forensics Research Group, University of South Alabama, Sep 14, 2016. Lightening talk (10 minutes).
- "Developing Cyber Threat Analysis Visualization Solutions in Cloud Environments", Digital Forensics Research Group, University of South Alabama, Sep 7, 2016. Lightening talk (10 minutes).
- "Social Media: Data Into Knowledge", Digital Forensics Research Group, University of South Alabama, February 12, 2016.
- "Steganalysis: Detecting Hidden Messages", Digital Forensics Research Group, University of South Alabama, October 16, 2015.
- "Development of a Mutation Correlation Engine (MuCE) and its application to breast cancer genomes to determine mutational relationships/Automatic Cell Tracking and Anomaly Detection", by Tom Johnsten (lead) and Ryan Benton, Mitchell Cancer Institute, University of South Alabama, October 6, 2015
- "Discovery in a Research Portfolio: Experiences in Analyzing the National Science Foundation Proposals", IEEE Lafayette Section, April 22, 2014.
- "Toward Computer-Aided Diagnosis of Alzheimer's Disease", UL Lafayette, Louis Stokes-Louisiana Alliance for Minority Participation, November 7, 2013.
- "Representations for Large-scale Sequence Data Mining: A Tale of Two Vector Space Models", UL Lafayette, CACS Weekly Colloquium, October 4, 2013.
- "University of Louisiana at Lafayette Data Mining Research", University of South Alabama, April 12, 2013.
- "Multi-Layered Vector Spaces", UL Lafayette, CACS Weekly Colloquium, March 8, 2013.
- "Analyzing and Visualizing Research Portfolios", UL Lafayette, CACS Weekly Colloquium, March 11, 2011.
- "Towards Computer-Aided Diagnosis of Alzheimer's Disease", IEEE Lafayette Section, January 27, 2011.
- "In Pursuit of Data-Driven Prediction of Alzheimer's Disease", University of South Alabama, Invited Speaker by Student Chapter of the ACM, October 2, 2009.
 - Similar presentation at UL Lafayette, CACS Weekly Colloquium, September 25, 2009
- "Knowledge Discovery in Digital Media", University of South Alabama, Guest Lecture, October 1, 2009.
- "Automatic Annotation of Satellite Imagery", UL Lafayette, CACS Weekly Colloquium, September 7, 2007.
- "Steganalysis (Detecting Hidden Messages)", UL Lafayette, CACS Weekly Colloquium, March 3, 2006.

Exhibit:

- K. Smith, J. DeRouen, **R. Benton**, S. Katragadda, and S. Virani, Lecture/Display, "For sale: grazing pasture, under water", by UL Lafayette Coastal Community Resilience Studio and Center for Advanced Computer Studies, at the UL Lafayette ArTech Fusion, Lafayette, Louisiana, USA. (March 14, 2014). In the spirit of the legend of Ernest Hemingway's 6 word short story, this project places terse and poignant narratives of land use and loss, restoration and adaptation, attachment to community, resilience, and personal identity along the Chenier Plain of coastal Louisiana. The stories are stored as points on a web-based map; with the stories appearing and disappearing on the map as the user moves the mouse over the points. The system was shown for 3 ½ hours, while a short audio/visual presentation was given (10 minutes).

Thesis Committee Chair

Master

- Jay Lewis, "Itemset Tree Enhancement", Computer Science (2016)

Doctoral

- Thomas Watts, "TBD", Computing (in progress)

Project Chair

Master

- Zachary Denton, "Dynamic Action Rule Mining", Computer Science (in progress)

Thesis Committee Membership

Master

- Vertie Louise Jordan, "Safety Performance of Horizontal Curves on Rural Two-Lane Highways", Civil Engineering (2008)
- Tejas Nomulwar, "Web Personalization Using Wikipedia", Computer Science (2010)
- Kaushik Das, "Investigation of Menu Properties and Pointing Techniques in a Projection-based VR Environment, Computer Science (2010)
- Long Li, "Louisiana Urban and Suburban Roadway Safety Study: Application of 1st Edition of Highway Safety Manual", Civil Engineering (2011)
- Subasish Das, "Evaluating safety improvement from edge lines on rural two-lane highways", Civil Engineering (2012)
- Rafi Qumsieh, "Synthesizing Additional Training Data To Increase The Classification Accuracy of Visual Data Using Feed-Forward Neural Networks on Small Datasets", Mathematics (2017)

Doctoral

- Nicholas Ruiz, "Statistical Parsing and Integration of Result Records for Answering Factual Questions", Computer Science (2011)
- Jennifer Lavergne, "Dynamic Targeted Data Mining", Computer Science (2013)
- Elshaimaa Ali, "A Framework for Building Light Weight Ontologies Based on Semi-structured Data for Semantic Annotation", Computer Science (2015)
- Mohammad Amir Sharif, "Large-Scale, Hybrid Approaches for Recommending Pages Based on User's Previous Click Patterns and Content", Computer Science (2015)
- Satya Katragadda, "A Framework for Real Time Event Detection for Emergency Situations Using Social Media Streams", Computer Science (2016)
- Murali Pusala, "TBD Graph Mining", (in progress)