

AHMED ABBASI

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McIntire School of Commerce
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EDUCATION

Ph.D. in Management Information Systems

Specialization in Artificial Intelligence, with minor in Cognitive Science
Eller College of Management, University of Arizona, Tucson

Dissertation Title: Categorization, Analysis, and Visualization of Computer Mediated Communication and Electronic Markets

Masters in Business Administration (MBA-IT Concentration),
Pamplin College of Business, Virginia Tech, Blacksburg

Bachelor of Science (Business Information Technology),
Pamplin College of Business, Virginia Tech, Blacksburg

WORK EXPERIENCE

Associate Dean and Murray Research Chaired Professor of Information Technology:

2018 – present, McIntire School of Commerce, University of Virginia, Charlottesville

- Director, Center for Business Analytics (2013 – present)
- Co-Director, MS in Business Analytics (2018 – present)
- Coordinator, Enterprise IT Management Module, MS MIT Program (2011 – 2019)

Murray Research Professor and Associate Professor of Information Technology:

2015 – 2018, McIntire School of Commerce, University of Virginia, Charlottesville

Associate Professor, Information Technology:

2014 – 2015, McIntire School of Commerce, University of Virginia, Charlottesville

Assistant Professor, Information Technology:

2011 – 2014, McIntire School of Commerce, University of Virginia, Charlottesville

Assistant Professor, Management Information Systems:

2008 - 2011, Sheldon B. Lubar School of Business, University of Wisconsin, Milwaukee

Research Associate and Project Lead:

2004 - 2008, Artificial Intelligence Lab, Department of MIS, University of Arizona, Tucson

- Managed large team of scientists, analysts, and developers involved in creating digital libraries, natural language processing, predictive modeling, and prototyping.

Research Assistant:

2003, Department of Business Information Technology, Virginia Tech, Blacksburg

- Conducted research related to the use of Neural Networks for business applications.

System Developer and Analyst:

2001-2003, Financial Services Industry, New York

- Developed systems to handle wire transfer, fraud detection, and letters of credit operations.

TEACHING EXPERIENCE

Course Instructor:

Summer 2011 – Present, University of Virginia

GBAC 7215 Data Analytics III: Deep Learning, GBAC 7209 Data Analytics II: Machine Learning for Predictive Analytics, COMM 4240 E-Commerce and Web Analytics, COMM 4260 Business Analytics, MS MIT Mod 1: Data Networks, MS MIT Mod 3: Enterprise IT Management, Enterprise-level Analytics

Fall 2008 – Summer 2011, University of Wisconsin-Milwaukee

BA 335 Visual Systems Development, BA 532 Web Development for Business Systems, BA 740 MIS Concepts and Languages

Summer 2008, Brown Mackie College

CS 370 Java Programming Part II

Summer 2007 – Winter 2007, University of Arizona

MIS 373 Basics of Operations Management

Guest Lecturer:

Spring 2007 – Spring 2008, University of Arizona

MIS 510 Web Computing and Mining, MIS 596 Topics in Management Information Systems

Teaching Assistant:

Fall 2002 – Spring 2004, Virginia Tech

BIT 2406 Quantitative Methods II, BIT 3434 Advanced Management Science, BIT 4434 Computer Simulation in Business, BIT 4484 Project Management

JOURNAL PUBLICATIONS

1. Li, J., Larsen, K., and Abbasi, A. “TheoryOn: A Design Framework and System for Unlocking Behavioral Knowledge through Ontology Learning,” **MIS Quarterly**, conditionally accepted.
2. Ahmad, F., Abbasi, A., Li, J., Dobolyi, D., Netemeyer, R., Clifford, G., and Chen, H. “A Deep Learning Architecture for Psychometric Natural Language Processing,” **ACM Transactions on Information Systems**, forthcoming.
3. Abbasi, A., Li, J., Adjeroh, D., Abate, M., and Zheng W. “Don’t Mention It? Analyzing User-generated Content Signals for Early Adverse Event Warnings,” **Information Systems Research**, 30(3), 2019, pp. 1007-1028.
4. Netemeyer, R., Dobolyi, D., Abbasi, A., Clifford, G., and Taylor, H. “Health Literacy, Health Numeracy and Trust in Doctor: Effects on Key Consumer Health Outcomes,” **Journal of Consumer Affairs**, forthcoming.
5. Deng, S., Zhang, P., Zhou, Y., and Abbasi, A. “Using Discussion Logic in Analyzing Online Group Discussions: A Text Mining Approach,” **Information and Management**, 56(4), 2019, pp. 536-551.
6. Abbasi, A., Li, J., Clifford, G. D., and Taylor, H. A. “Make ‘Fairness By Design’ Part of Machine Learning,” **Harvard Business Review**, August 5, 2018, digital article: <https://hbr.org/2018/08/make-fairness-by-design-part-of-machine-learning>
7. Kitchens, B., Dobolyi, D., Li, J., and Abbasi, A. “Advanced Customer Analytics: Strategic Value through Integration of Relationship-Oriented Big Data,” **Journal of Management Information Systems**, 35(2), 2018, pp. 540-574.

8. Abbasi, A. Zhou, Y., Deng, S., and Zhang, P. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," **MIS Quarterly**, 42(2), 2018, pp. 427-464.
9. Zimbra, D., Abbasi, A., Zeng, D., and Chen, H. "The State-of-the-Art in Twitter Sentiment Analysis: A Review and Benchmark Evaluation," **ACM Transactions on Management Information Systems**, 9(2), 2018, no. 5.
10. Taylor, H. A., Henderson, F., Abbasi, A., and Clifford, G. D., "Cardiovascular Disease in African Americans: Innovative Community Engagement for Research Recruitment and Impact," **American Journal of Kidney Diseases**, 72(5)(Supp 1), 2018, S43-S46, Impact Factor: 7.129.
11. Adjero, D., Allaga, M., Tan, J., Lin, J., Jiang, Y., Abbasi, A., and Zhou, X. "Feature-Based and String-Based Models for Predicting RNA-Protein Interaction," **Molecules**, 23(3), 2018, 697, Impact Factor: 3.098.
12. Abbasi, A., Sarker, S., and Chiang, R. H. L. "Big Data Research in Information Systems: Toward an Inclusive Research Agenda," **Journal of the Association for Information Systems**, 17(2), no. 3, 2016.
13. Zahedi, F. M., Abbasi, A., and Chen, Y. "Fake-Website Detection Tools: Identifying Design Elements that Promote Individuals' Use and Enhance their Performance," **Journal of the Association for Information Systems**, 16(6), 2015, pp. 448-484.
14. Abbasi, A., Zahedi, F. M., Zeng, D., Chen, Y., Chen, H., and Nunamaker Jr., J. F. "Enhancing Predictive Analytics for Anti-Phishing by Exploiting Website Genre Information," **Journal of Management Information Systems**, 31(4), 2015, pp. 109-157.
15. Abbasi, A., Lau, R. Y. K., and Brown, D. E. "Predicting Behavior," **IEEE Intelligent Systems**, 30(3), 2015, pp. 35-43.
16. Brown, D. E., Abbasi, A., and Lau, R. Y. K., "Predictive Analytics: Predictive Modeling at the Micro Level," **IEEE Intelligent Systems**, 30(3), 2015, pp. 6-8.
17. Brown, D. E., Abbasi, A., and Lau, R. Y. K., "Predictive Analytics," **IEEE Intelligent Systems**, 30(2), 2015, pp. 6-8.
18. Abbasi, A. and Adjero, D. "Social Media Analytics for Smart Health," **IEEE Intelligent Systems**, 29(2), 2014, pp. 60-64.
19. Adjero, D., Beal, R., Abbasi, A., Zheng, W., Abate, M., and Ross, A. "Signal Fusion for Social Media Analysis of Adverse Drug Events," **IEEE Intelligent Systems**, 29(2), 2014, pp. 74-80.
20. Benjamin, V., Chung, W., Abbasi, A., Chuang, J., Larson, C. A., and Chen, H. "Evaluating Text Visualization for Authorship Analysis," **Security Informatics**, 3(10), 2014.
21. Zhang, Z., Zeng, D., Abbasi, A., Peng, J., and Zheng, X. "A Random Walk Model for Item Recommendation in Social Tagging Systems," **ACM Transactions on Management Information Systems**, 4(2), 2013, no. 8.
22. Abbasi, A., Albrecht, C. C., Vance, A., and Hansen, J. V. "MetaFraud: A Meta-learning Framework for Detecting Financial Fraud," **MIS Quarterly**, 36(4), 2012, pp. 1293-1327.
23. Fu, T., Abbasi, A., Zeng, D., and Chen, H. "Sentimental Spidering: Leveraging Opinion Information in Focused Crawlers," **ACM Transactions on Information Systems**, 30(4), 2012, no. 24.
24. Abbasi, A., Zahedi, F. M., and Kaza, S. "Detecting Fake Medical Web Sites using Recursive Trust Labeling," **ACM Transactions on Information Systems**, 30(4), 2012, no. 22.

25. Abbasi, A., France, S. L., Zhang, Z., and Chen, H. "Selecting Attributes for Sentiment Classification using Feature Relation Networks," **IEEE Transactions on Knowledge and Data Engineering**, 23(3), 2011, pp. 447-462.
26. Zimbra, D., Abbasi, A., and Chen, H. "A Cyber-Archaeology Approach to Social Movement Research: Framework and Case Study," **Journal of Computer-Mediated Communication**, 16, 2010, pp. 48-70.
27. Abbasi, A. "Intelligent Feature Selection for Opinion Classification," **IEEE Intelligent Systems**, 25(4), 2010, pp. 75-79.
28. Abbasi, A., Zhang, Z., Zimbra, D., Chen, H., and Nunamaker Jr., J. F. "Detecting Fake Websites: The Contribution of Statistical Learning Theory," **MIS Quarterly**, 34(3), 2010, pp. 435-461 (MISQ Best Paper Award for 2010, AIS 5 Best Publications for 2010).
29. Fu, T., Abbasi, A., and Chen, H. "A Focused Crawler for Dark Web Forums," **Journal of the American Society for Information Science and Technology**, 61(6), 2010, pp. 1213-1231.
30. Chen, Y., Abbasi, A., and Chen, H. "Framing Social Movement Identity with Cyber-Artifacts: A Case Study of the International Falun Gong Movement," **Annals of Information Systems**, 9, 2010, pp. 1-24.
31. Abbasi, A. and Chen, H. "A Comparison of Tools for Detecting Fake Websites," **IEEE Computer**, 42(10), 2009, pp. 78-86.
32. Abbasi, A. and Chen, H. "A Comparison of Fraud Cues and Classification Methods for Fake Escrow Website Detection," **Information Technology and Management**, 10(2), 2009, pp. 83-101.
33. Abbasi, A., and Chen, H. "CyberGate: A Design Framework and System for Text Analysis of Computer Mediated Communication," **MIS Quarterly**, 32(4), 2008, pp. 811-837.
34. Abbasi, A., Chen, H., Thoms, S., and Fu, T. "Affect Analysis of Web Forums and Blogs using Correlation Ensembles," **IEEE Transactions on Knowledge and Data Engineering**, 20(9), 2008, pp. 1168-1180.
35. Abbasi, A., Chen, H., and Nunamaker Jr., J. F. "Stylometric Identification in Electronic Markets: Scalability and Robustness," **Journal of Management Information Systems**, 25(1), 2008, pp. 49-78.
36. Abbasi, A., Chen, H., and Salem, A. "Sentiment Analysis in Multiple Languages: Feature Selection for Opinion Classification in Web Forums," **ACM Transactions on Information Systems**, 26(3), 2008, no. 12.
37. Fu, T., Abbasi, A., and Chen, H. "A Hybrid Approach to Web Forum Interactional Coherence Analysis," **Journal of the American Society for Information Science and Technology**, 59(8), 2008, pp. 1195-1209.
38. Abbasi, A., and Chen, H. "Writeprints: A Stylometric Approach to Identity-Level Identification and Similarity Detection in Cyberspace," **ACM Transactions on Information Systems**, 26(2), 2008, no. 7.
39. Abbasi, A., and Chen, H. "Applying Authorship Analysis to Extremist-Group Web Forum Messages," **IEEE Intelligent Systems**, 20(5), 2005, pp. 67-75.

CONFERENCE PROCEEDINGS

1. Abbasi, A., Claggett, J., Kitchens, B., and Chen, H. "MedCrawl: Improving Public Health Outcomes through Effective and Efficient Social Listening," In the 10th *Conference on Health IT and Analytics*, Washington D.C., November 15-16, 2019
2. Khaja, H. I., Abate, M., Zheng, W., Abbasi, A., and Adjeroh, D. "Evaluating Semantic Similarity for Adverse Drug Event Narratives," In the 11th *International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP)*, Washington D.C., 2018.
3. Li, J., Abbasi, A., Ahmad, F., and Chen, H. "A Deep Learning Architecture for Psychometric Natural Language Processing," In the 28th *Workshop on Information Technologies and Systems (WITS)*, Santa Clara, CA, December 15-16, 2018.
4. Ahmad, F., Abbasi, A., Kitchens, B., and Zeng, D. "Finding Needles in a Haystack: Deep Learning for Rare Adverse Event Detection," In the *INFORMS Workshop on Data Science*, Phoenix, AZ, November 3, 2018.
5. Li, J., Abbasi, A., Ahmad, F., and Chen, H. "A Deep Learning Architecture for Psychometric Natural Language Processing," In the *INFORMS Workshop on Data Science*, Phoenix, AZ, November 3, 2018 (**Best Paper Nominee**).
6. Dobolyi, D., Abbasi, A., Zahedi, M. Z., and Vance, T. "The Phishing Funnel Model for Predicting User Susceptibility to Phishing Websites," In the *INFORMS Workshop on Data Science*, Houston, TX, October 21, 2017.
7. Li, J., Larsen, K., and Abbasi, A. "Unlocking our Behavioral Knowledge Inheritance through Ontology Learning: A Design Framework, an Instantiation, and a Randomized Experiment," In the *INFORMS Workshop on Data Science*, Houston, TX, October 21, 2017.
8. Adjeroh, D., Allaga, M., Tun, J., Lin, J., Jiang, Y., Abbasi, A., and Zhou, X. "String-Based Models for Predicting RNA-Protein Interaction," In the *ACM Conference on Bioinformatics, Computational Biology and Health Informatics*, Boston, MA, August 20-23, 2017.
9. Abbasi, A., Dobolyi, D., Zahedi, M. Z., and Vance, T. "The Phishing Funnel Model: Predicting User Susceptibility to Phishing Attacks," In the 13th *Annual Winter Conference on Business Analytics*, Salt Lake City, UT, March 2-4, 2017.
10. Li, J., Abbasi, A., Cheema, A., and Abraham, L. "Path to Purpose? Impact of Online Purchases' Hedonic and Utilitarian Characteristics on the Customer Journey," In the 26th *Workshop on Information Technologies and Systems (WITS)*, Dublin, Ireland, December 15-16, 2016.
11. Li, J., Larsen, K., and Abbasi, A. "Unlocking Knowledge Inheritance of Behavioral Research through Ontology Learning: An Ontology-Based Search Engine," In the 26th *Workshop on Information Technologies and Systems (WITS)*, Dublin, Ireland, December 15-16, 2016 (**Best Prototype Award**).
12. Dobolyi, D. and Abbasi, A. "PhishMonger: A Free and Open Source Public Archive of Real-World Phishing Websites," In the 14th *IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Tucson, Arizona, Sept. 27-30, 2016.
13. Abbasi, A., and Zahedi, F. M. "Phishing Susceptibility: The Good, the Bad, and the Ugly," In the 14th *IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Tucson, Arizona, Sept. 27-30, 2016.
14. Abbasi, A., Zhao, K., and Abraham, B. "A Prototype System for Collecting and Analyzing Credible Online Medical Content," In the 11th *International Conference on Design Science Research in Information Systems and Technology (DESRIST)*, St. John's, Canada, May 23-24, 2016.

15. Li, J., Larsen, K., and Abbasi, A. "TheoryOn: Designing a Construct-based Search Engine to Reduce Information Overload for Behavioral Science Research," *In the 11th International Conference on Design Science Research in Information Systems and Technology (DESRIST)*, St. John's, Canada, May 23-24, 2016.
16. Abbasi, A., Li, J., Abbasi, S., Adjeroh, D., Abate, M., Zheng, W. "Don't Mention It? Analyzing User-generated Content Signals for Early Adverse Drug Event Warnings," *In the 25th Workshop on Information Technologies and Systems (WITS)*, Dallas, Texas, December 12-13, 2015 (**Best Paper Award**).
17. Sharif, H., Ismail, S., Farooqi, S., Khan, M. T., Gulzar, M. A., Lakhani, H., Zaffar, F. and Abbasi, A. "A Classification Based Framework to Predict Viral Threads," *In the 19th Pacific Asia Conference on Information Systems (PACIS)*, Singapore, July 5-9, 2015.
18. Abbasi, A., Li, W., Benjamin, V., Hu, S., and Chen, H. "Descriptive Analytics: Examining Expert Hackers in Web Forums," *In the IEEE Joint Intelligence and Security Informatics Conference (IEEE ISI)*, The Hague, Netherlands, September 24-26, 2014.
19. Sharif, H., Zaffar, F., Abbasi, A., and Zimbra, D. "Detecting Adverse Drug Reactions using a Sentiment Classification Framework," *In the 6th ASE Conference on Social Computing*, Stanford, May 26-30, 2014.
20. Li, W., Abbasi, A., Hu, S., Benjamin, V., and Chen, H. "Modeling Interactions in Web Forums," *In the 6th ASE Conference on Social Computing (SocialCom)*, Stanford, May 26-30, 2014.
21. Abbasi, A., Hassan, A., and Dhar, M. "Benchmarking Twitter Sentiment Analysis Tools," *In the 9th Language Resources and Evaluation Conference (LREC)*, Reykjavik, Iceland, May 26-31, 2014.
22. Abbasi, A., Fu, T., Zeng, D., and Adjeroh, D. "Crawling Credible Online Medical Sentiments for Social Intelligence," *In the ASE/IEEE International Conference on Social Computing (SocialCom)*, Washington D.C., September 8-14, 2013.
23. Hassan, A., Abbasi, A., and Zeng, D. "Twitter Sentiment Analysis: A Bootstrap Ensemble Framework," *In the ASE/IEEE International Conference on Social Computing (SocialCom)*, Washington D.C., September 8-14, 2013.
24. Beal, R., Adjeroh, D., and Abbasi, A. "The Forward Stem Matrix," *In the ACM Conference on Bioinformatics, Computational Biology and Biomedical Informatics*, Washington D.C., September 22-25, 2013.
25. Benjamin, V., Chung, W., Abbasi, A., Chuang, J., Larson, C., and Chen, H. "Evaluating Text Visualization: An Experiment in Authorship Analysis," *In the 11th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Seattle, Washington, June 4-7, 2013 (**Best Paper Nominee**).
26. Abbasi, A., Zahedi, F. M., and Chen, Y. "Impact of Anti-Phishing Tool Performance on Attack Success Rates," *In the 10th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Washington D.C., June 11-14, 2012.
27. Koepke, J., Kaza, S., and Abbasi, A. "Identification of Malicious and Fake Websites: Using Information from the Transport and Internet Layers of the Network Stack," *In the 10th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Washington D.C., June 11-14, 2012.
28. France, S. and Abbasi, A. "Boosting Unsupervised Additive Clustering Using Cluster-Wise Optimization and Multi-Label Learning," *In the 11th IEEE International Conference on Data Mining Workshops (ICDM)*, Vancouver, Canada, December 11, 2011.

29. Zhang, Z., Zeng, D., Abbasi, A., and Peng, J. "A Random Walk Model for Item Recommendation in Folksonomies," *In the 21st Workshop on Information Technologies and Systems (WITS)*, Shanghai, China, December 3-4, 2011.
30. Zahedi, F. M., Abbasi, A., and Chen, Y. "Design Elements that Promote the use of Fake Website Detection Tools," *In the 10th AIS SIG-HCI Workshop*, Shanghai, China, December 4, 2011 (**Best Paper Nominee**).
31. Zahedi, F. M., Abbasi, A., and Chen, Y. "Trust Calibration of Security IT Artifacts: The Case of Fake Website Detection Tools," *In the Workshop on Information Security and Privacy (WISP)*, Shanghai, China, December 4, 2011.
32. Chen, Y., Zahedi, F. M., and Abbasi, A. "Interface Design Elements for Anti-Phishing Systems," *In the 6th International Conference on Design Science Research in Information Systems and Technology (DESRIST)*, Milwaukee, Wisconsin, May 5-6, 2011 (**Best Paper Nominee**).
33. Abbasi, A. "Leveraging Website Genre and Structure Information for Fake Website Detection," *In the 20th Workshop on Information Technologies and Systems (WITS)*, St. Louis, Missouri, December 11-12, 2010 (**Best Paper Award**).
34. Fu, T., Abbasi, A., Zeng, D., and Chen, H. "Evaluating the Usefulness of Sentiment Information for Focused Crawlers," *In the 20th Workshop on Information Technologies and Systems (WITS)*, St. Louis, Missouri, December 11-12, 2010.
35. Abbasi, A., Kaza, S., and Zahedi, F. M. "Evaluating Link-Based Techniques for Detecting Fake Pharmacy Websites," *In the 19th Workshop on Information Technologies and Systems (WITS)*, Phoenix, Arizona, December 14-15, 2009.
36. Abbasi, A., Zhang, Z., and Chen, H. "A Statistical Learning Based System for Fake Website Detection," *In the Workshop on Secure Knowledge Management*, Dallas, Texas, November 3-4, 2008.
37. Chen, Y., Abbasi, A., and Chen, H. "Developing Ideological Networks using Social Network Analysis and Writeprints: A Case Study of the International Falun Gong Movement," *In the 6th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Taiwan, June 17-20, 2008, pp. 7-12.
38. Abbasi, A. and Chen, H. "Detecting Fake Escrow Websites using Rich Fraud Cues and Kernel Based Methods," *In the 17th Workshop on Information Technologies and Systems (WITS)*, Montreal, Canada, December 8-9, 2007, pp. 55-60.
39. Abbasi, A. and Chen, H. "A Framework for Stylometric Similarity Detection in Online Settings," *In the 13th Americas Conference on Information Systems (AMCIS)*, Keystone, Colorado, August 9-12, 2007.
40. Abbasi, A. and Chen, H. "Categorization and Analysis of Text in Computer Mediated Communication Archives using Visualization," *In the ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, Vancouver, Canada, June 18-23, 2007, pp. 11-18.
41. Abbasi, A. and Chen, H. "Affect Intensity Analysis of Dark Web Forums," *In the 5th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, New Brunswick, New Jersey, May 23-24, 2007, pp. 282-288.
42. Fu, T., Abbasi, A. and Chen, H. "Interaction Coherence Analysis for Dark Web Forums," *In the 5th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, New Brunswick, New Jersey, May 23-24, 2007, pp. 342-349.

43. Abbasi, A. and Chen, H. "Visualizing Authorship for Identification," *In the 4th IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, San Diego, California, May 23-24, 2006, pp. 60-71.
44. Abbasi, A. and Chen, H. "Applying Authorship Analysis to Arabic Web Content," *In the 3rd IEEE International Conference on Intelligence and Security Informatics (IEEE ISI)*, Atlanta, Georgia, May 18-19, 2005, pp. 183-197.

BOOK CHAPTERS, CASES, and WHITE PAPERS

1. Shim, Y., Abbasi, A., Devarkonda, C., Reilly, T., and Kirzhner, R. "How do you Steer the Business when AI is Running the Ship?" *EY Point-of-View White Paper*, 2019, pp. 1-11.
2. Mallikarjun, S., and Abbasi, A. "CFA Curriculum Level II Reading: Big Data Projects," *CFA Institute Level 2 Reading*, 2019, pp. 1-80.
3. Ipsos Public Affairs and McIntire Center for Business Analytics "The Automation Divide," *Ipsos Point-of-View White Paper*, 2017, pp. 1-8.
4. Burhop, D., Carr, P., and Abbasi, A. "Case Study – Commonwealth of Virginia Department of Motor Vehicles Data Quality Analysis," *McIntire CBA Case*, 2016, pp. 1-29.
5. Abbasi, A. and Chen, H. "Analysis of Affect Intensities in Extremist Group Forums," *Terrorism Informatics*, 2008, pp. 285-307, Springer US.

INVITED TALKS AND PRESENTATIONS

1. Abbasi, A. Topic TBD, *Distinguished Speaker in IT/Analytics Speaker Series*, Mendoza College of Business, **Notre Dame University**, November 8, 2019.
2. Abbasi, A. "Spatio-temporal Movement Modeling with Deep Learning: The Blue Water Case," *Invited Seminar Talk*, Johnson Graduate School of Management, **Cornell University**, October 11, 2019.
3. Abbasi, A. "Deep Learning for Detecting Adverse Events from Web Search," *Research Workshop*, Goizueta Business School, **Emory University**, August 13, 2019.
4. Abbasi, A. "Deep Learning for Detecting Adverse Events from Web Search," *Distinguished Speaker Series – Global Center on Big Data and Mobile Analytics*, Fox School of Business, **Temple University**, June 14, 2019.
5. Abbasi, A. "Deep Learning for Detecting Adverse Events from Web Search," *Invited Seminar Talk*, Sauder School of Business, **University of British Columbia**, May 3, 2019.
6. Abbasi, A. "Deep Learning for Detecting Adverse Events from Web Search," *Invited Seminar Talk*, Beedie School of Business, **Simon Fraser University**, May 2, 2019.
7. Abbasi, A. "Examining Sentiment in Financial Call Transcripts: A Deep Learning Perspective," *Invited Seminar Talk – Institute for Financial Services Analytics*, Alfred Lerner College of Business and Economics, **University of Delaware**, DE, February 15, 2019.
8. Abbasi, A. "Finding Needles in a Haystack: Deep Learning for Rare Adverse Event Detection," *Invited Research Talk*, Tippie College of Business, **University of Iowa**, IA, October 12, 2018.
9. Abbasi, A. "Text Analytics: The State-of-the-Art and Applications in Adverse Event Detection," *Antai Graduate Summer School*, **Shanghai Jiaotong University**, Shanghai, China, July 10, 2018.

10. Abbasi, A. "Text Analytics: Advanced Methods and Value Quantification," *Antai Graduate Summer School*, **Shanghai Jiaotong University**, Shanghai, China, July 9, 2018.
11. Abbasi, A. "Deep Learning for Health Empowerment: Psychometric and Behavior Modeling," *Invited Talk*, **Annual Conference on Data, Information, and Society**, Nanjing, China, July 5, 2018.
12. Abbasi, A. "Deep Learning for Patient Empowerment: Psychometric and Behavior Modeling," *Invited Keynote*, **International Conference on Smart Health**, Wuhan, China, July 3, 2018.
13. Abbasi, A. "A Deep Learning Architecture for Psychometric Natural Language Processing," *Invited Speaker – Digital Innovation Workshop*, Carroll School of Management, **Boston College**, Boston, MA, May 4, 2018.
14. Abbasi, A. "Deep Learning for Health Analytics: Psychometric Natural Language Processing," *Invited Research Talk*, R. H. Smith School of Business, **University of Maryland**, College Park, MD, March 16, 2018.
15. Abbasi, A. "Behavior Modeling for Cybersecurity: Predicting Susceptibility to Phishing Attacks," *Invited Research Talk*, College of Business, **UT-San Antonio**, San Antonio, TX, March 2, 2018.
16. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Invited Research Talk*, **Virginia Commonwealth University**, Richmond, VA, November 17, 2017.
17. Abbasi, A. "Mobile Analytics: What is your Phone Telling you about your Health?," *HealthTech Day*, MOYO, **Morehouse School of Medicine**, Atlanta, GA, November 11, 2017.
18. Abbasi, A. "Two Trends in Business Analytics," *UVA Datapalooza*, Data Science Institute, **University of Virginia**, Charlottesville, VA, November 10, 2017.
19. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Invited Research Talk – Professor Lecture Series*, **Deloitte Consulting**, Arlington, VA, August 16, 2017.
20. Abbasi, A. "Creating and Capturing Business Value through Text and Social Analytics," *UVA McIntire Knowledge Continuum*, Center for the Management of IT, **University of Virginia**, Charlottesville, VA, May 12, 2017.
21. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Invited Research Talk*, Pamplin College of Business, **Virginia Tech**, Blacksburg, VA, May 5, 2017.
22. Abbasi, A. "Emerging Technologies - Driving Business Value through Innovation," *Invited Talk*, *EY Data Management Round Table*, EY FSO Advisory, **Ernst & Young**, New York City, NY, April 19, 2017.
23. Abbasi, A. "Data Management Journey: What's Next? – An Academic Perspective," *Roundtable Panel*, *EY Data Management Round Table*, EY FSO Advisory, **Ernst & Young**, New York City, NY, April 19, 2017.
24. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Invited Research Talk*, Robinson College of Business, **Georgia State University**, Atlanta, GA, March 3, 2017.
25. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *ASU IS Research Workshop*, W.P. Carey School of Business, **Arizona State University**, Phoenix, AZ, February 23-25, 2017.

26. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Research Seminar Series*, Fox School of Business, **Temple University**, Philadelphia, PA, February 3, 2017.
27. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Research Seminar Series*, Cox School of Business, **Southern Methodist University**, Dallas, TX, December 2, 2016.
28. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *MIS Research Center*, Carlson School of Management, **University of Minnesota**, Minneapolis, MN, November 18, 2016.
29. Abbasi, A. "Text Analytics to Support Sense-making in Social Media: A Language-Action Perspective," *Special Guest Speaker Seminar*, Department of Computer Science, **University of Virginia**, Charlottesville, VA, October 29, 2016.
30. Abbasi, A. "Large-scale Medical Informatics for Patient Care Coordination and Engagement," *Data Science Institute Board Meeting*, **University of Virginia**, Charlottesville, VA, October 14, 2016.
31. Abbasi, A. "Socio-Technical Predictive Analytics for Cybersecurity: A People, Process, and Technology Perspective," *Plenary Panel*, **IEEE ISI 2016**, Tucson, AZ, September 30, 2016.
32. Abbasi, A. "ISI Research: Data Collection is Half the Battle," *DIBBs Panel*, **IEEE ISI 2016**, Tucson, AZ, September 30, 2016.
33. Abbasi, A. "Socio-Technical Predictive Analytics for Cybersecurity: A People, Process, and Technology Perspective," *UVA Datapalooza*, Data Science Institute, **University of Virginia**, Charlottesville, VA, September 16, 2016.
34. Abbasi, A. "The Phishing Funnel Model: A Design Artifact for Understanding and Predicting User Susceptibility to Phishing Websites," *MIS Speaker's Series*, Eller College of Management, **University of Arizona**, Tucson, AZ, March 25, 2016.
35. Abbasi, A. "The Value Proposition of WITS," *WITS 25th Anniversary Panel*, **WITS 2015**, Dallas, TX, December 12, 2015.
36. Abbasi, A. "Don't Mention It? An Empirical Analysis of User-generated Content Signals for Early Adverse Drug Event Warnings," *Research Seminar Series*, David Eccles School of Business, **University of Utah**, Salt Lake City, UT, November 6, 2015.
37. Abbasi, A. "Don't Mention It? Analyzing User-generated Content Signals for Early Adverse Drug Event Warnings," *Information Systems Seminar Series*, Naveen Jindal School of Management, **UT-Dallas**, Dallas, TX, October 23, 2015.
38. Abbasi, A. "Cross-Paradigm Research Streams: An Example in IS Security Research," *Antai Graduate Summer School*, **Shanghai Jiaotong University**, China, July 3, 2015.
39. Abbasi, A. "Big Data in Information Systems Research: A Value Chain Perspective," *Antai Graduate Summer School*, **Shanghai Jiaotong University**, China, July 1, 2015.
40. Abbasi, A. "Twitter Sentiment Analysis: #TheStateoftheArt," *Leeds Business Analytics Conference*, Leeds School of Business, **University of Colorado**, Boulder, CO, September 19, 2014.
41. Abbasi, A. "Predictive Analytics for Anti-Phishing," *Speaker Series - From the Classroom to the Boardroom*, **Deloitte Consulting**, Arlington, VA, May 23, 2014.
42. Abbasi, A. "Predictive Analytics for Anti-Phishing," *UVA McIntire Knowledge Continuum*, **University of Virginia**, Charlottesville, VA, April 4, 2014.

43. Abbasi, A. "Social Media Analytics: From Reactive to Proactive," *UVA McIntire Knowledge Continuum*, **University of Virginia**, Charlottesville, VA, April 5, 2013.
44. Hans, S. and Abbasi, A. "Analytics: From Reactive to Proactive," *UVA Alumni Dinner*, **University of Virginia**, Tysons Corner, VA, November 16, 2012.
45. Abbasi, A., "Social Media Analytics," *MIS Research Center Speaker Series*, Carlson School of Management, **University of Minnesota**, Minneapolis, MN, November 9, 2012.
46. Abbasi, A., Zahedi, F. M., and Chen, Y. "The Phishing Funnel: Understanding and Predicting User Susceptibility to Phishing Website Attacks," *Invited Research Talk*, Carlson School of Management, **University of Minnesota**, Minneapolis, MN, November 9, 2012.
47. Abbasi, A., Zahedi, F. M., and Chen, Y. "The Phishing Funnel: Assessing the Impact of Anti-phishing Tool Performance on Attack Success Rates," *Invited Talk*, **INFORMS Annual Meeting**, Phoenix, AZ, October 16, 2012.
48. Abbasi, A. "Detecting Adverse Drug Reactions using Social Media Analytics," *Invited Talk*, **IEEE ISI Social Computing Workshop**, Washington D. C., June 11, 2012.
49. Koepke, J., Kaza, S., and Abbasi, A. "Safeguarding Individuals in the Health 2.0 Era: Identification of Fake Medical Websites using Network Stack Information," *Invited Talk*, **INFORMS Annual Meeting**, Charlotte, NC, November 15, 2011.
50. France, S. and Abbasi, A. "Selecting Attributes for Sentiment Classification" *Accepted Talk*, **Annual Meeting of the Classification Society**, St. Louis, MO, June 18, 2010.
51. Abbasi, A. "Fake Website Detection: Tools, Techniques, and Applications Domains," *Lubar School of Business Research Seminar Series*, **University of Wisconsin-Milwaukee**, WI, October 29, 2009.
52. Abbasi, A. "Fake Website Detection," *Invited Talk*, **The Big Ten IS Symposium**, Bloomington, IN, May 2, 2009.
53. Abbasi, A. "Tools for Detecting Fake Websites," *Invited Talk*, **The 41st Parameter**, Phoenix, AZ, May 22, 2008.
54. Abbasi, A. "Learning Fraud Cues for Fake Website Detection," *Invited Talk*, **Arizona Exposition on Frontiers in Information Technology and Applications (FITA)**, Tucson, AZ, February 28-29, 2008.
55. Abbasi, A. "Stylometric Identification in Electronic Markets: Scalability and Robustness," *Pamplin College of Business*, **Virginia Tech**, Blacksburg, VA, January 18, 2008.
56. Abbasi, A. "Text Analysis of Computer-mediated Communication," *Williamson College of Business Administration*, **Youngstown State University**, Youngstown, OH, December 5, 2007.
57. Abbasi, A. "Stylometric Identification in Electronic Markets: Scalability and Robustness," *Culverhouse School of Commerce*, **University of Alabama**, Tuscaloosa, AL, October 26, 2007.
58. Abbasi, A. "Stylometric Identification in Electronic Markets: Scalability and Robustness," **Michigan State University**, East Lansing, MI, October 19, 2007.
59. Abbasi, A. "Writeprints: Stylometric Identification and Similarity Detection in Cyberspace," *School of Information Studies*, **Syracuse University**, Syracuse, NY, October 12, 2007.
60. Abbasi, A. and Chen, H. "Affect and Sentiment Analysis of Web Discourse," *PI presentations*, **ITIC/CIA Knowledge Discovery and Dissemination (KDD) PI Workshop**, MITRE, McLean, VA, November 1-2, 2005.

RESEARCH GRANTS

1. “NLP for the Greater Good: A Robust Deep Learning Framework,” (PI, with David Dobolyi and Rick Netemeyer), funded by *Oracle for Research*, \$100,000.
2. “Social Media Based Analysis of Adverse Drug Events: User Modeling, Signal Reliability, and Signal Validation,” (UVA PI), funded by the *National Science Foundation* (#IIS-1816504), \$500,000 total, UVA share: \$230,000.
3. “Large-scale Medical Informatics for Patient Care Coordination and Engagement,” (UVA PI), funded by the *National Science Foundation* (#BDS-1636933), \$1,000,000 total, UVA share: \$50,000.
4. “New Abstractions and Applications for Automata Computing,” (Co-PI), funded by the *National Science Foundation* (#CCF-1629450), \$875,000.
5. “Psychometric NLP for Patient Care and Coordination,” (PI, with David Dobolyi, Jingjing Li, and Rick Netemeyer), funded by *Microsoft Research* (Microsoft Azure Research Award CRM:0740129), \$25,000.
6. “Full-stack Cybersecurity: Integrating Analytics, System Responsiveness, and the Human,” (Co-PI, with Ryan Wright and Kevin Skadron), funded by *University of Virginia* (3 Cavaliers Program), \$60,000.
7. “CRUFS: A Unified Framework for Social Media Analysis of Adverse Drug Events,” (UVA PI), funded by the *National Science Foundation* (#IIS-1553109 and IIS-1552860), \$250,000 total, UVA share: \$110,000.
8. “DIBBs for Intelligence and Security Informatics Research Community,” (UVA PI), funded by the *National Science Foundation* (#ACI-1443019), \$1,500,000 total, UVA share: \$150,068.
9. “Big Data in Business Curriculum – Educate, Explore, Engage, and Execute,” (PI), funded by *IBM Faculty Award*, \$20,000.
10. “Large-scale Sentiment Analysis of Social Media,” (PI), funded by *AWS Educator Research Grant*, \$5,000.
11. “Computational Public Drug Surveillance,” (UVA PI), funded by the *National Science Foundation* (# IIS-1236970 and IIS-1236983), \$156,057.
12. “A User-Centric Approach to the Design of Intelligent Fake Website Detection Systems,” (Co-PI), funded by the *National Science Foundation* (# CNS-1049497), \$280,173.
13. “Online Stylometric Authorship Identification: An Exploratory Study,” (Project Lead), funded by the *National Science Foundation* (# IIS-0646942), \$75,000.
14. “Explosives and IEDs in the Dark Web: Discovery, Categorization, and Analysis,” (Project Lead and Subcontractor), funded by the *National Science Foundation* (# CBET-0730908), \$797,447.

PROFESSIONAL ACTIVITIES (EXTERNAL)

1. Senior Editor:
Information Systems Research (2018 - present)
2. Associate Editor:

ACM Transactions on Management Information Systems (2013 – present), IEEE Intelligent Systems (2014 - present), Information Systems Research (2015 - 2017), Decision Sciences Journal (2015 - 2017), MIS Quarterly special assignments (2017 – 2018).

3. Advisory Board Member:

WITS - Workshop on Information Technologies and Systems (2015 - present); \$1.2M NSF-funded project on “Securing Cyberspace: Understanding the Cyber Attackers and Attacks via Social Media Analytics.”

4. Editorial Review Board Member, Journal of the AIS (2014 – 2017).

5. Senior Member, Institute for Electrical and Electronics Engineers (IEEE); Member, Association for Information Systems (AIS) and INFORMS.

6. Reviewer and/or Panelist for Grant Proposals:

Defense Threat Reduction Agency (DTRA, 2009), National Science Foundation (NSF, 2012-2016), and the American Association for the Advancement of Sciences (AAAS 2012)

7. Associate Editor: Knowledge Management and Business Intelligence Track (ICIS 2012), Data Science and Business Analytics Track (ICIS 2016), Research Methods, Theorizing, and Philosophy (ICIS 2017)

8. Track Co-chair: Big Data Analytics Track – ICEC 2014; Business Analytics and Data Science – DESRIST 2017; Data Science & Predictive Analytics – ICIS 2018; HCI, AI, and IA – ICIS 2020

9. Organizing Committee Member, Workshop on Information Technologies and Systems (WITS 2014), INFORMS Workshop on Data Science (2017)

10. Session chair:

Text Mining, IEEE International Conference on Intelligence and Security Informatics, 2012, Washington D.C.; Social Computing, INFORMS Annual Meeting, 2011, Charlotte, NC; Text Mining, Workshop on Information Technologies and Systems, 2010, Phoenix, AZ.

11. Program committee member:

North American Chapter of the Association for Computational Linguistics (NAACL 2013), Empirical Methods in Natural Language Processing (EMNLP 2012), Conference of the European Chapter of the Association for Computational Linguistics (EACL 2012), International Joint Conference on Natural Language Processing (IJCNLP 2011, 2015, 2017), Pacific Asia Workshop on Intelligence and Security Informatics (PAISI 2011), International Conference on Design Science Research in Information Systems and Technology (DESRIST 2011-2017), International Workshop on Search and Mining User-generated Contents (SMUC 2010), ACM Symposium on Computer Human Interaction for Management of Information Technology (CHIMIT 2010), Annual Meeting of the Association for Computational Linguistics (ACL 2010, 2011, 2014, 2015), Workshop on Information Technologies and Systems (WITS 2009-2018), INFORMS Workshop on Data Science (WDS 2017-2019).

12. Reviewed Manuscripts for the Following Journals and Conferences:

Journals: MIS Quarterly, Information Systems Research, Journal of Management Information Systems, Management Science, ACM Transactions on Information Systems, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Systems, Man, and Cybernetics (Part A, B), ACM Transactions on Knowledge and Data Discovery, ACM Transactions on Management Information Systems, INFORMS Journal on Computing, IEEE Computer, IEEE Intelligent Systems, Information Systems Frontiers, Decision Support Systems, Computational Linguistics, International Journal of Electronic Commerce, Information Processing and Management, International Journal of Electronic Business, Journal of the American Society for Information Science and Technology,

International Journal of Digital Crime and Forensics, Journal of Computer-Mediated Communication, Language Resources and Evaluation.

Conferences: International Conference on Information Systems (2009, 2010, 2013), Empirical Methods in Natural Language Processing (2009), Pacific Asia Conference on Information Systems (2009), Workshop on Interdisciplinary Studies in Information Privacy and Security (2008), European Conference on Digital Libraries (2007), Hawaii International Conference on System Sciences (2006), International Conference on Asian Digital Libraries (2006), ACM Conference on Information and Knowledge Management (2006), Pacific-Asia Conference on Knowledge Discovery and Data Mining (2005), Workshop on the Sciences of the Artificial (2005), IEEE International Conference on Intelligence and Security Informatics (2005), Association for the Advancement of Artificial Intelligence (2017).

PROFESSIONAL ACTIVITIES (INTERNAL)

1. Director, Center for Business Analytics, McIntire School of Commerce, University of Virginia (2013-present). The Center has received over **\$1 million** in industry funding and commitments to date.
 - Arrange annual colloquium featuring 250+ registrants, 25-30 industry speakers
 - Manage spring board meeting encompassing 16-20 board members and invitees
 - Oversee various Center activities, including annual skills workshops, competitions, etc.
 - Co-created new MS-Commerce track in Business Analytics (2015)
 - Co-created new joint MS in Business Analytics with Darden (2018)
2. Coordinator, Enterprise IT Management Module, MS MIT Program, McIntire School of Commerce, University of Virginia (2011-2019).
 - Ran executives-on-grounds (EOG) program featuring pool of 20+ CIOs and technology executives that have one-on-one feedback and mentoring sessions with students.
3. Member, MS MIT Admissions Committee, McIntire School of Commerce, University of Virginia (2012-2015).
4. Member, Reappointment, Promotion and Tenure Committees (various), McIntire School of Commerce, University of Virginia (2014–present).
5. Member, New Building Planning Group (2017–present)
6. Affiliated Faculty Member, Data Science Institute, University of Virginia (2014-present)
7. Committee Chair/Member, Cybersecurity and Business Analytics Cluster Hires, University Virginia (2017-present)
8. Program Faculty Member, Doctoral Program in Medical Informatics, University of Wisconsin-Milwaukee (2008-2011).
9. Member, Research Cyber-Infrastructure Working Group, University of Wisconsin (2008-2009).
10. Library Liaison, Sheldon B. Lubar School of Business, University of Wisconsin (2009-2011).
11. Faculty Host, Center for Technology Innovation (CTI) Workshops, University of Wisconsin:
 - “Beyond Web 3.0! Emerging Opportunities in Social Media Marketing,” William F. Zachmann, Oct. 22, 2010; “Knowing When to Jump: SAP Business Objects for the Business Customer,” Tanner Spaulding, Apr. 23, 2010; “Semantic Web for the Working Ontologist,” Dean Allemang, Jan. 23, 2009.

13. Dissertation Committee Member:

Nitin Walia (UW-Milwaukee, 2010), Craig Claybaugh (UW-Milwaukee, 2010), Yan Chen (UW-Milwaukee, 2012).

14. Master's Students Advised:

James Crawford (UW-Milwaukee, 2011), Edward Burr (UW-Milwaukee, 2011), Ali Alkhudair (UW-Milwaukee, 2011), Faizan Ahmad (UVA, present)

15. Undergraduate Theses Supervised:

Paul Huang (UVA, Computer Science, 2013)

SPECIAL AWARDS AND HONORS

1. Technical Achievement Award, IEEE ITS Society (2018)
2. Best Paper Nominee, INFORMS Workshop on Data Science (2018)
3. Best Prototype Award, Workshop on Information Technologies and Systems (2016)
4. Best Paper Award, Workshop on Information Technologies and Systems (2015)
5. IBM Faculty Award, (2014)
6. Best Paper Nominee, IEEE International Conference on Intelligence and Security Informatics (2013)
7. Best Paper Nominee, International Conference on Design Science Research in Information Systems and Technology (2011)
8. Best Paper Nominee, AIS SIG-HCI Workshop (2011)
9. One of Five Best Publications, Association for Information Systems (2010)
10. Best Paper Award, MIS Quarterly (2010)
11. Best Paper Award, Workshop on Information Technologies and Systems (2010)
12. Roger L. Fitzsimonds Scholarly Achievement Award, University of Wisconsin-Milwaukee (2010)
13. Gold Star Teaching Award, University of Wisconsin-Milwaukee (2010)
14. Research Fellowship, University of Wisconsin-Milwaukee (2008-2011)
15. Eller College Dean's Award for Research, University of Arizona (2008)
16. Eller College Dean's Award for Teaching, University of Arizona (2008)
17. MBA Program Academic Scholarship, Virginia Tech (2002-2004)
18. Charles M. Forbes Academic Scholarship, Virginia Tech (2002-2004)
19. Central Fidelity Fellowship, Virginia Tech (1999-2000)
20. Member, National Society of Collegiate Scholars (1999-Present)
21. William L. Dean Academic Scholarship, Virginia Tech (1998-2000)
22. Robert B. Pamplin Academic Scholarship, Virginia Tech (1998-2000)

MAJOR MEDIA COVERAGE OF RESEARCH

Text and Social Media Analytics

1. UVA Today, April 28, 2017, [McIntire Faculty Tackle Today's Big Questions](#)
2. The Wall Street Journal, October 8, 2012, [Mining the Internet for Speedier Alerts on Drugs.](#)
3. Fox News, October 3, 2012, [Researchers Try to Track Drug Reactions using Social Media.](#)
4. The Associated Press, October 2, 2012, [Prof's Aim to Track Drug Reactions via Social Media.](#)
5. Science Daily, September 21, 2012, [Sifting Social Media for Early Signs of Adverse Drug Reactions.](#)

Cybersecurity and Fraud Detection

6. WINA Podcast, February 17, 2015 [Crowdsourcing Cybersecurity](#)

7. UVA Today, February 16, 2015, [McIntire Professor will Probe Cybersecurity Breaches](#)
8. Whistle Blower Central, September 26, 2012, [UVA-BYU MetaFraud: SEC Droid we're Looking For?](#)
9. Phys Org, September 18, 2012, [Researchers Detect Fraud with Highest Accuracy to Date.](#)
10. Arizona Daily Star, September 6, 2011, [UA Team Out to Expose Phishers.](#)
11. United Press International, July 26, 2011, [System Said to Detect Fake Websites.](#)

AI and Automation

12. CBS This Morning, October 21, 2017, [How Americans Feel About Automation](#)
13. WIRED, October 17, 2017, [Americans Love Automation Until It Comes For Their Jobs](#)

IS TECHNICAL SKILLS

Programming Languages: Java, Python, Visual Basic, C++, Prolog, COBOL
Computer Applications: MS Office, SPSS, Minitab, QM, Weka, R, RapidMiner, Offline Explorer
Operating Systems: MS Windows 95/98/2000/XP/Vista/7/10, MS DOS, Unix
Database Systems: MS SQL Server, Oracle, MySQL, MS Access
Internet Technologies: HTML, XML, Applets, Servlets, JSP, JDBC, TOMCAT, Apache