

Robert P. Schumaker

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PRIMARY TEACHING / RESEARCH INTEREST

- ◆ eCommerce, Telecommunications, Networking, Data Mining and Knowledge Management
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SPECIFIC RESEARCH INTERESTS

- ◆ Knowledge Discovery and Data Mining
 - ◆ Information Retrieval
 - ◆ Electronic Commerce
 - ◆ Knowledge Management
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SPECIFIC TEACHING INTERESTS

- ◆ Data Mining
 - ◆ Knowledge Management
 - ◆ Telecommunications
 - ◆ Programming Languages
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ACADEMIC PREPARATION

Ph.D. in Management

The Eller College of Business, University of Arizona, 2007

Major: Management of Information Systems

Minor: Linguistics

Dissertation Title: Knowledge Acquisition, Delivery and Prediction through Text Mining

Advisor: Hsinchun Chen

Masters of Business Administration

College of Business Administration, University of Akron, 2001

Major: Management

Minor: International Business

Bachelor of Science

College of Engineering, University of Cincinnati, 1997

Major: Civil Engineering

Concentration: Transportation Engineering

PROFESSIONAL EXPERIENCE

Assistant Professor, Fall 2007 – Present

Dept. of Information Systems, Iona College

Current Research Areas:

- ◆ Sports Data Mining – Mining relevant data from Sports-related databases and producing accurate predictions from them can provide an edge to sports organizations and gamblers alike. Using the Moneyball style philosophy, this project analyzes the use of different machine learning techniques to predict outcomes of sporting events.

- ◆ Textual Financial Prediction – A continuation of the AZFinText studies, this project examines the relationship between financial news articles and their impact on stock market prices. Prediction is made utilizing various textual representation schemes, price prediction models and machine learning techniques to accomplish profitability in extreme near-term trading. Based on the premise that unexpected news events can shape the price of a stock, we capitalize on automatically identifying the relevant keywords in the news article and then execute a trade well-before human traders have a chance to read the news article.

Teaching:

- ◆ Business Information Systems
 - ◆ Client/Server Applications
 - ◆ Data Mining
 - ◆ Internet Applications
 - ◆ IT in Infrastructure
 - ◆ Network Construction
 - ◆ Quantitative Investing
 - ◆ Telecommunications
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- Responsible to challenge students with interesting and active materials relevant to business
 - Provided invaluable peer insight into continuing efforts to improve student curriculum
 - Anticipated areas of student difficulty and adjusts dynamic lectures accordingly

Research Associate, Fall 2003 – Spring 2007

Artificial Intelligence Lab

Dept. of Management of Information Systems, Univ. of Arizona

- ◆ Textual Financial Prediction – Known as AZFinText, this project examines the relationship between financial news articles and their impact on stock market prices. Prediction is made utilizing various textual representation schemes, price prediction models and machine learning techniques to accomplish profitability in extreme near-term trading. Based on the premise that unexpected news events can shape the price of a stock, we capitalize on automatically identifying the relevant keywords in the news article and then execute a trade well-before human traders have a chance to read the news article.

- ◆ Question Answer Systems – The AZ-ALICE and TARA chatterbot experiments were an exploration into the potential of using natural language chatterbots as conversational entities. These two studies, AZ-ALICE in Fall 2003 and TARA in Spring/Summer 2004, were built on the proven ALICE chatterbot engine (www.alicebots.org). In the AZ-ALICE experiment

we tested a limited telecommunications knowledge set to see how well the chatterbot could respond to telecommunications-related questions. The TARA studies went one step further and analyzed a substantial terrorism knowledge base that was automatically gathered from the Internet. From our experiments we found several interesting facets. The most important of which was the discovery that adding more knowledge to the system actually harmed the quality of responses.

Instructor, Summer 2004

Dept. of Management of Information Systems, Univ. of Arizona

Course: Business Information Systems

Instructor, Fall 2000 – Summer 2003

College of Business Administration, Univ. of Akron

Courses: MicroComputer Applications
Business Information Systems

JOURNAL PUBLICATION

- (1) Schumaker, R., & Chen, H., (2010) Interaction Analysis of the ALICE Chatterbot: A Two Study Investigation of Dialog and Domain Questioning. *IEEE Systems, Man & Cybernetics Part A*, 40(1): 40-51.
- (2) Schumaker, R., & Chen, H., (2010) A Discrete Stock Price Prediction Engine Based on Financial News. *IEEE Computer*, 43(1): 51-56.
- (3) Schumaker, R., Solieman, O., & Chen, H., (2009) Sports Knowledge Management and Data Mining. *Annual Review of Information Science and Technology*, 44.
- (4) Schumaker, R., & Chen, H., (2009) A Quantitative Stock Prediction System based on Financial News. *Information Processing and Management*, 45(5): 571-583.
- (5) Schumaker, R., & Johnson, J., (2008) An Investigation of SVM Regression to Predict Longshot Greyhound Races. *Communications of the International Information Management Association*, 8(2): 67-82.
- (6) Schumaker, R., & Chen, H., (2008) Textual Analysis of Stock Market Prediction Using Breaking Financial News: The AZFinText System. *Association for Computing Machinery Transactions on Information Systems*, 27(2).
- (7) Schumaker, R., & Chen, H., (2008). Evaluating a News-Aware Quantitative Trader: The Effects of Momentum and Contrarian Stock Selection Strategies. *Journal of the American Society for Information Science and Technology*, 59(2): 247-255.
- (8) Schumaker, R., & Chen, H., (2007). Leveraging Question Answer Technology to Address Terrorism Inquiry. *Decision Support Systems*, 43(4): 1419-1430.

- (9) Schumaker, R., Liu, Y., Ginsburg, M., & Chen, H., (2007). Evaluating the Efficacy of a Terrorism Question Answer System: The TARA Project. *Communications of the ACM*, 50(7): 74-80.
- (10) Schumaker, R., Liu, Y., Ginsburg, M., & Chen, H., (2006). Evaluating Mass Knowledge Acquisition using the ALICE Chatterbot. *International Journal of Human-Computer Studies*, 64(11): 1132-1140.
- (11) Schumaker, R., Ginsburg, M., Chen, H., & Liu, Y., (2006). An Evaluation of the Chat and Knowledge Delivery Components of a Low-Level Dialog System: The AZ-ALICE Experiment. *Decision Support Systems*, 42(4): 2236-2246.

PAPERS UNDER REVIEW

- (1) Schumaker, R., Zhang, Y., & Huang, C., Sentiment Analysis of Financial News Articles. *Communications of International Information Management Association*
- (2) Schumaker, R., An Analysis of Verbs in Financial News Articles and their Impact on Stock Price. *NAACL Workshop on Social Media*

CONFERENCE PUBLICATION

- (1) Schumaker, R., Zhang, Y., & Huang, C., (2009). Evaluating Sentiment in Financial News Articles. *20th Annual Conference of the International Information Management Association (IIMA-2009)*, October 2009. Houston, TX
- (2) Schumaker, R., (2009). Analyzing Representational Schemes of Financial News Articles. *The Third China Summer Workshop on Information Systems (CSWIM-2009)*, June 2009. Guangzhou, China
- (3) Schumaker, R., & Johnson, J., (2008). An Investigation of SVM Regression to Predict Longshot Greyhound Races. *19th Annual Conference of the International Information Management Association (IIMA-2008)*, October 2008. San Diego, CA
- (4) Reid, E., Qin, J., Chung, W., Xu, J., Zhou, Y., Schumaker, R., Sageman, M., & Chen, H., (2004). Terrorism Knowledge Discovery Project: A Knowledge Discovery Approach to Addressing the Threats of Terrorism. *IEEE International Conference on Intelligence and Security Informatics (ISI-2004)*, June 2004. Tucson, AZ
- (5) McDonald, D., Chen, H., & Schumaker, R., (2005). Transforming Open-Source Documents to Terror Networks: The Arizona TerrorNet. *American Association for Artificial Intelligence Conference Spring Symposia (AAAI-2005)*, March 2005. Stanford, CA
- (6) Schumaker, R., & Chen, H., (2006). Textual Analysis of Stock Market Prediction Using Financial News Articles. *Americas Conference on Information Systems (AMCIS-2006)*, Aug 2006. Acapulco, Mexico

BOOKS

- (1) Schumaker, R., Solieman, O., & Chen, H., (2010). Sports Data Mining: Uncovering New Knowledge and Performance Measures, New York: Springer

BOOK CHAPTERS

- (2) Schumaker, R., & Chen, H., (2006). "Case Study 17: A Dialog System for Terrorism Resources," in Chen, Hsinchun, Intelligence and Security Informatics for International Security: Information Sharing and Data Mining, pp 136-139 New York: Springer

POSTERS AND DEMONSTRATIONS

- (1) Schumaker, R., Chen, H., Wang, T., & Wilkerson, J., (2005). Terror Tracker System: A Web Portal for Terrorism Research. *Joint Conference on Digital Libraries (JCDL-2005)*, June 2005. Denver, CO
- (2) Schumaker, R., & Chen, H., (2005) Question Answer TARA: A Terrorism Activity Resource Application. *IEEE International Conference on Intelligence and Security Informatics (ISI-2005)*, May 2005. Atlanta, GA

WORKING PAPERS

- (1) Schumaker, R., Analyzing Parts of Speech and their Impact on Stock Price. *21st Annual Conference of the International Information Management Association*.
- (2) Schumaker, R., Zhang, Y., Huang, C., & Chen, H., Evaluating Sentiment in Financial News Articles. *ACM Transactions on Management Information Systems*.
- (3) Schumaker, R., & Johnson, J., Using SVM Regression to Predict Greyhound Races. *IEEE Intelligent Systems*
- (4) Schumaker, R., An Investigation of SVM Regression to Predict Longshot Thoroughbred Races. *22nd Annual Conference of the International Information Management Association*.
- (5) Schumaker, R., Predicting Thoroughbred Races using Machine Learning Techniques. *Decision Support Systems*.
- (6) Schumaker, R., Tracking Media Sentiment. *IEEE Computer*.

GRANT PROPOSALS

- (1) CELTIC Excellence in Teaching Awards, "Exploring the Link between Internet Applications and Robotics," 2009, \$1,500. Funded 2009.
 - (2) Price Waterhouse Coopers Inquires, "Leveraging XBRL for Continuous Auditing," 2007, \$152,838.
 - (3) National Science Foundation – The National Science Digital Library, "Knowledge Creation and Integration for NSDL: Learning Support for Digital Libraries," 2005, \$499,865.
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SEMINARS, INVITED TALKS AND CONFERENCE PRESENTATIONS

- (1) “An Investigation of SVM Regression to Predict Longshot Greyhound Races,” *Augsburg College*, Minneapolis MN, Mar. 12, 2010
- (2) “Evaluating Sentiment in Financial News Articles,” *International Information Management Association Conference (IIMA-2009)*, Houston, TX, Oct. 13, 2009
- (3) “Analyzing Representational Schemes of Financial News Articles,” *The Third China Summer Workshop on Information Systems (CSWIM-2009)*, Guangzhou China, June 27, 2009
- (4) “An Investigation of SVM Regression to Predict Longshot Greyhound Races,” *International Information Management Association Conference (IIMA-2008)*, San Diego CA, Oct. 13, 2008
- (5) “Sports Knowledge Management and Data Mining,” *Information Systems Dept. Research Seminar*, New Rochelle NY, Mar. 25, 2008
- (6) “Using SVM Regression to Predict Greyhound Races,” *Information Systems Dept. Research Seminar*, New Rochelle NY, Oct. 22, 2007
- (7) “Textual Analysis of Stock Market Prediction Using Financial News Articles,” *SAS 10th Annual Data Mining Conference*, Las Vegas NV, Oct. 2, 2007
- (8) “Knowledge Acquisition, Delivery and Prediction through Text Mining,” *Graduate College – Final Defense*, Tucson AZ, Apr. 19, 2007
- (9) “Evaluating a News-Aware Quantitative Trader: The Effect of Momentum and Contrarian Stock Selection Strategies,” *Iona College*, New Rochelle NY, Apr. 13, 2007
- (10) “Using SVM Regression to Predict Greyhound Races,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Mar. 30, 2007
- (11) “Evaluating a News-Aware Quantitative Trader: The Effects of Momentum and Contrarian Stock Selection Strategies,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Feb. 16, 2007
- (12) “Stock Prediction with Financial News Articles: The Effect of Industry Classification,” *MIS Dept. Brown Bag Lecture Series*, Tucson AZ, Sept. 1, 2006
- (13) “Stock Prediction with Financial News Articles: The Effect of Industry Classification,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Aug. 18, 2006
- (14) “Textual Analysis of Stock Market Prediction Using Financial News Articles,” *Americas Conference on Information Systems (AMCIS-2006)*, Acapulco Mexico, Aug. 4, 2006
- (15) “Knowledge Acquisition, Delivery and Prediction through Text Mining,” *Graduate College – Oral Examination*, Tucson AZ, May 10, 2006
- (16) “Knowledge Acquisition, Delivery and Prediction through Text Mining,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Apr. 28, 2006
- (17) “Textual Analysis of Stock Market Prediction Using Breaking Financial News,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Nov. 4, 2005

- (18) “Interaction Analysis of the ALICE Chatterbot,” *MIS Department – Written Prelim*, Tucson AZ, Oct. 6, 2005
- (19) “Textual Analysis of Stock Market Prediction Using Breaking Financial News,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, July 1, 2005
- (20) “Evaluating the Efficacy of a Terrorism Question Answer System: The TARA Project,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Sept. 17, 2004
- (21) “Evaluating Mass Knowledge Acquisition using the ALICE Chatterbot,” *Artificial Intelligence Lab – PhD Seminar*, Tucson AZ, Jan. 23, 2004

EDITORIAL BOARDS, EDITORSHIPS AND JOURNAL MINUTIAE

Associate Journal Editor

Communications of the International Information Management Association, 2009 – Present

Editorial Board Member

Information Systems for Global Markets, 2010 – Present

Journal Reviewer

- *ACM Transactions on Computer-Human Interaction*
- *ACM Transactions on Information Systems*
- *Communications of the ACM*
- *Communications of the IIMA*
- *IEEE Intelligent Systems*
- *IEEE Systems, Man & Cybernetics, Part A*
- *Information Systems Frontiers*
- *Journal of Electronic Commerce Research*

CONFERENCE BOARDS, CHAIRS AND MINUTIAE

Executive Committee Member

International Information Management Association Conference, 2010

Program Committee Member

Workshop on Social Media and Computational Linguistics, 2010

Track Chair

International Information Management Association Conference

- eCommerce Track – 2010
- Sports Knowledge Management and Data Mining – 2009

Conference Reviewer

- *AAAI – American Association for Artificial Intelligence, 2005*
- *AMCIS – Americas Conference on Information Systems, 2006*
- *CIKM – Conference on Information Knowledge and Management, 2006*
- *DELOS – Workshop on User Interfaces in Digital Libraries, 2005*

- *DESRIST – International Conference on Design Science, 2006*
- *DGO – International Conference on Digital Government Research, 2006*
- *ECDL – European Conf. on Research & Advanced Technology for Digital Libraries, 2007*
- *ICADL – International Conference of Asian Digital Libraries, 2005, 2006*
- *ICIS – International Conference on Information Systems, 2006*
- *IIMA – International Information Management Association, 2008, 2009*
- *ISI – IEEE International Conference on Intelligence and Security Informatics, 2005, 2006*
- *JCDL – Joint Conference on Digital Libraries, 2005*
- *PSB – Pacific Symposium on BioComputing, 2006*
- *SISC – San Diego International Systems Conference, 2005*
- *WeB – Workshop on e-Business, 2005*
- *WISI – Workshop on Security and Intelligence Informatics, 2006*
- *WSA – Workshop on Sciences of the Artificial, 2005*

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- ◆ Association for Computer Machinery (ACM)
- ◆ Institute for Electrical and Electronics Engineers (IEEE)
- ◆ The Society for American Baseball Research (SABR)

TEACHING EXPERIENCE

Iona College

Undergraduate

- Business Information Systems
 - BUS 150 – B Fall 2009 Awaiting Results
 - BUS 150 – C Fall 2009 Awaiting Results
 - BUS 150 – D Fall 2009 Awaiting Results
 - BUS 150 – F Fall 2009 No Results (Partial semester for a colleague)
 - BUS 150 – EA Summer 2009 Awaiting Results
 - BUS 150 - C Spring 2009 Teacher Rating of 3.47 on a 4.0 scale
 - BUS 150 - D Spring 2009 Teacher Rating of 3.40 on a 4.0 scale
 - BUS 150 - E Spring 2009 Teacher Rating of 3.17 on a 4.0 scale
 - BUS 150 - C Fall 2008 Teacher Rating of 2.90 on a 4.0 scale
 - BUS 150 - D Fall 2008 Teacher Rating of 2.87 on a 4.0 scale
 - BUS 150 - EA Summer 2008 Teacher Rating of 3.50 on a 4.0 scale
 - BUS 150 - EB Summer 2008 Teacher Rating of 3.00 on a 4.0 scale
 - BUS 150 - C Spring 2008 Teacher Rating of 3.13 on a 4.0 scale
 - BUS 150 - M Spring 2008 Teacher Rating of 3.05 on a 4.0 scale
 - BUS 150 - D Spring 2008 Teacher Rating of 3.22 on a 4.0 scale
 - BUS 150 - D Fall 2007 Teacher Rating of 3.17 on a 4.0 scale
 - BUS 150 - E Fall 2007 Teacher Rating of 3.00 on a 4.0 scale
 - BUS 150 - F Fall 2007 Teacher Rating of 3.58 on a 4.0 scale
- Internet Applications in Business
 - IS 355 Spring 2009 Teacher Rating of 3.75 on a 4.0 scale

- Network Construction
 - IS 450 Summer 2008 No Results

Graduate

- Business Information Systems
 - MBA 580 Summer 2009 No Results

- Data Mining
 - IS 685 Fall 2009 No Results
 - IS 685 Fall 2008 Teacher Rating of 2.20 on a 4.0 scale

- Quantitative Investment
 - IS 615 Summer 2009 No Results
 - IS 615 Summer 2008 No Results

- Telecommunications
 - IS 991 Winter 2007 No Results

University of Arizona

Undergraduate

- Business Information Systems
 - MIS 304 Summer 2004 Teacher Rating of 4.20 on a 5.0 scale

University of Akron

Undergraduate

- Business Information Systems
 - 6500:310-080 Fall 2001 Teacher Rating of 3.07 on a 5.0 scale

- MicroComputer Applications
 - 6200:250-007 Spring 2003 Teacher Rating of 3.91 on a 5.0 scale
 - 6200:250-006 Spring 2003 Teacher Rating of 4.34 on a 5.0 scale
 - 6200:250-005 Spring 2003 Teacher Rating of 3.59 on a 5.0 scale
 - 6200:250-003 Spring 2003 Teacher Rating of 4.27 on a 5.0 scale
 - 6200:250-008 Fall 2002 Teacher Rating of 4.50 on a 5.0 scale
 - 6200:250-007 Fall 2002 Teacher Rating of 4.49 on a 5.0 scale
 - 6200:250-003 Fall 2002 Teacher Rating of 4.73 on a 5.0 scale (Top 20%)
 - 6200:250-002 Fall 2002 Teacher Rating of 4.52 on a 5.0 scale
 - 6200:250-488 Summer 2002 Teacher Rating of 4.60 on a 5.0 scale
 - 6200:250-403 Summer 2002 Teacher Rating of 4.14 on a 5.0 scale
 - 6200:250-002 Spring 2002 Teacher Rating of 4.22 on a 5.0 scale
 - 6200:250-001 Spring 2002 Teacher Rating of 4.43 on a 5.0 scale
 - 6200:250-007 Fall 2001 Teacher Rating of 4.03 on a 5.0 scale
 - 6200:250-101 Summer 2001 Teacher Rating of 4.45 on a 5.0 scale
 - 6200:250-008 Spring 2001 Teacher Rating of 4.54 on a 5.0 scale
 - 6200:250-005 Fall 2000 Teacher Rating of 4.17 on a 5.0 scale

Continuing Education

- Microsoft PowerPoint
 - 7677 Spring 2002 Teacher Rating of 4.20 on a 5.0 scale

CURICULUUM DEVELOPMENT

Iona College

Undergraduate

- Network Construction
 - A hands-on course where students are tasked with constructing a non-trivial computer network from the ground up. Theory is blended with practice and students will gain experience in network design, construction, troubleshooting and diagnostics.
- Computer Security
 - With the ever increasing reliance on networked computer systems, properly securing those systems from physical, domestic and global threats becomes paramount. While systems in the industries of finance/banking, transportation, utilities and government services are high value targets, any compromised system can be used as a platform of attack. Threats to computer security can come from a myriad of vectors, including penetration testing, WiFi, DNS poisoning, DDOS, social engineering, using exploits and even cyber-warfare. This class will teach the student how to properly design system installations and effectively use security auditing tools to reduce an organization's risk.

Graduate

- IT in Infrastructure
 - With an ageing national infrastructure, we examine ways in which Information Systems can be used to develop, maintain and improve our existing transportation, telecommunication and energy needs. With many of these systems becoming more complex and inter-dependent, it is important to identify the potential roles that Information Systems may play in maximizing solutions and opportunities while minimizing situations where the introduction of Information Systems may cause unintended consequences.
- Quantitative Investing
 - This course provides an overview of Information System-based financial transaction systems and their role in portfolio selection for the Financial Sector. Topics include portfolio selection, rebalancing and performance monitoring from the standpoint of artificial intelligence learning techniques. This course covers stock selection/filtering, building robust scalable models, identifying statistical deviations, arbitrage market theories, managing risk and measuring the performance of various quant models.
- Telecommunications
 - This course provides a systems view of computer networking and telecommunications. Topics include voice and data communications, networking protocols, IP telephony, wireless and mobile networks, networking security and management. The course also covers networking and telecommunication techniques, applications technology, networking topologies and architectures. Specific areas discussed include LAN system fundamentals, such as Ethernet and token ring, WAN system fundamentals, such as circuit-switching, packet-switching, X.25, frame relay and Asynchronous Transfer Mode.

TEXTBOOKS REVIEWED

- (1) Haag, S. and Perry, J. I-Series: Microsoft Office Access 2003 Complete. McGraw-Hill/Irwin, 2003.
- (2) Haag, S. and Perry, J. I-Series: Microsoft Office Excel 2003 Complete. McGraw-Hill/Irwin, 2003.

CONTINUED STUDY

Post Baccalaureate

Spring 2003 – University of Akron

- ◆ 3460:460 Artificial Intelligence and Heuristic Programming

INDUSTRY EXPERIENCE

President, 2008 – Present

The Schumaker Foundation Inc. – www.schumakerfoundation.com

- ◆ The Schumaker Foundation Inc. is a 501(c)(3) public non-profit charity that is dedicated to providing financial scholarships to exceptional students in both Divinity and Information Systems fields.
 - Organized, founded and brought forth a new avenue of assistance to serve a demographic subset that is not typically served
 - Responsible for all aspects of the Foundation's business
 - Incorporation, taxation, day to day activities, strategic vision, website design and maintenance, presiding over board meetings, etc.

Director of the IS Dept. Computer Lab, September 2007 – Present

Information Systems Dept., Iona College

- ◆ Initiated and implemented a student assistant training program to handle daily operations
- ◆ Modernized an aging facility with state of the art computers, servers and networking equipment
- ◆ Instrumental for creating student and faculty demand for the lab

Computer Lab Manager, January 2001 – March 2002

CBA Computer Labs, Univ. of Akron

- ◆ Instrumental in modernizing operations by embracing the complete paperless office concept
- ◆ Created a networked scheduling program to handle the student demand for lab equipment
- ◆ Raised efficiencies by developing models to provide instant data on all aspects of operations
- ◆ Initiated and implemented an online student assistant training program with hands-on objectives

Interim Director of Technology, August 2000 – January 2001
CBA Computer Labs, Univ. of Akron

- ◆ Responsible for the overall development and technology needs of the college
- ◆ Assertively trained Lab Assistants to handle incredibly complex computer-related problems
- ◆ Took an aggressive initiative in replacing 1/3 of the lab computers and servers
- ◆ Handled daily operations and set into motion a long term strategic plan addressing future needs

Vice President, 1997 – 1999
Schumaker Hardware, Baltic, Ohio

- ◆ Responsible for day to day operations across all facets of operation
- ◆ Integral in expanding physical store selling area by 150%
- ◆ Wrote a neural network algorithm to analyze and predict sales given historical knowledge
- ◆ Created an inventory control program that reduced inventory counts from weeks to days

TECHNICAL SKILLS

- ◆ Java, JSP development
- ◆ Have actively taught Visual Basic
- ◆ Have actively taught expert levels of MS Office
- ◆ Have a home network that rivals not small, but mid-sized businesses for its capacity
- ◆ Host and maintain several Internet Web domains
- ◆ Have extensive experience maintaining large arrays of personal computers
- ◆ Skillful in computer security lockdowns, monitoring and maintenance capability
- ◆ SQL Server
- ◆ Apache Tomcat

AWARDS AND HONORS

- ◆ CELTIC Excellence in Teaching Award, 2009
- ◆ Nominated for the GPSC Outstanding Research Assistant of the Year, 2005, 2007
- ◆ GRS Scholarship – University of Arizona, Spring 2005 – 2007
- ◆ Nominated for the James LaSalle Teaching Award, 2004, 2006
- ◆ Tuition Scholarship recipient – University of Arizona, 2003 – 2007
- ◆ Graduate Assistantship – University of Arizona, 2003 – 2007
- ◆ Tuition Scholarship recipient – University of Akron, 2000 – 2001
- ◆ Graduate Assistantship – University of Akron, 1999 – 2000
- ◆ Partial Scholarship recipient – University of Cincinnati
- ◆ Induction into Sigma Iota Epsilon, Honorary Management Fraternity
- ◆ Consistently receive outstanding Instructor ratings on Student Evaluations

MISCELLANEOUS PROFESSIONAL SERVICE

- ◆ SABR Statistical Analysis Committee Member, 2007 – Present
- ◆ ICIS Volunteer, 2005
- ◆ JCDL Director of Onsite Registration Activities, 2004
- ◆ ISI Volunteer, 2004

COLLEGIATE SERVICE

- ◆ Iona College Library Committee Member, 2008 – Present
- ◆ Iona College Institutional Review Board Member, 2009 – Present
- ◆ Iona College Presidential/Dean's Scholarship Interviewer, 2008, 2009
- ◆ Hagan School of Business Strategic Vision Committee Member, 2009
- ◆ Hagan School of Business Curriculum Committee Member, 2009 – Present
- ◆ Hagan School of Business Freshman Advisor, 2007 – Present
- ◆ IS Dept. AACSB Self-Study Committee Chair, 2008 – 2009
- ◆ IS Dept. Liaison for Campus Day for Accepted Students, 2009
- ◆ IS Dept. Textbook Selection Committee, 2008 – Present
- ◆ IS Dept. Director of the IS Computer Lab, 2007 – Present
- ◆ AI Lab Recruiting Leader, 2004 – 2007
- ◆ AI Lab PhD Seminar Coordinator, 2004 – 2006
- ◆ Eller College Admissions Interviewer, 2006, 2007
- ◆ Graduate and Professional Student Council Representative, 2006 – 2007
- ◆ Graduate and Professional Student Council, Travel Grant Judge, 2006
- ◆ MISA Test Review Volunteer Instructor, 2004 – 2005
- ◆ Graduation Marshall for the Faculty, 2002 – 2003
- ◆ University of Akron Scholarship Interviewer, 2003
- ◆ Quasi-Academic Advisor for SITE Student Group, 2002 – 2003
- ◆ CBA Computer Operations Committee, 2000 – 2001

COMMUNITY SERVICE

- ◆ The Schumaker Foundation Inc. – Board of Governor's, 2008 – Present
- ◆ Adopt-A-Spot Volunteer – Derby, CT, 2008 – Present
- ◆ American Red Cross – VIP Blood Donor
- ◆ Habitat for Humanity Volunteer
- ◆ ΦKT - Star Link of charitable giving
- ◆ Big Brothers/Big Sisters Volunteer, 2000 – 2003
- ◆ ΦKT Board of Governor's, AΦ Chapter, 1999 – 2003

REFERENCES

Dr. Robert Richardson
Professor & Departmental Chair
Information Systems Dept.
Iona College

Dr. Hsinchun Chen
Professor and Director of the AI Lab
Management of Information Systems
The University of Arizona

Dr. Leon Zhao
Professor & Department Head
Information Systems Dept.
City University of Hong Kong

Dr. Paramjit Kahai
President and Founder
Northeast Ohio IT Services

Dr. Vincent Calluzzo
Dean of the Hagan School of Business
Iona College

Dr. Jay Nunamaker
Regents Professor
Management of Information Systems
The University of Arizona

Dr. Zhu Zhang
Assistant Professor
Management of Information Systems
The University of Arizona

Dr. John Cheh
Associate Professor
Dept. of Accountancy
The University of Akron