

Wenying “Nan” Sun

Computer Information Sciences
Washburn University
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Topeka, KS 66621, USA
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Education

Ph.D. in Information Systems
University of Kansas, Lawrence, Kansas (2011)

Master of Software Engineering
Kansas State University, Manhattan, Kansas (2002)

Bachelor of Arts, Computer Information Sciences
Washburn University, Topeka, Kansas (1994)

Bachelor of Arts, English
East China Normal University, Shanghai, China (1989)

Certification

Certified Software Development Professional (CSDP), granted by IEEE Computer Society

Professional Work Experience

Washburn University, Topeka, Kansas

Assistant Professor, Associate Professor, Professor, CIS Chair – August 2002 – Present

Courses taught: Computer Competency and Internet, Introduction to Computer Science, Introduction to Structured Programming, Visual Programming using Visual Basic, Visual Programming using C#, Java Programming, Computer Networks, Operating Systems, Software Engineering, Database Management Systems, SQL for Developers, Systems Analysis and Design, CIS Research, Business Statistics, Senior Capstone, and Senior Seminar.

Kansas Foundation for Medical Care, Inc., Topeka, Kansas

Programmer Analyst - March 1997 – August 2002
- January 1995 - November 1995

Providing programming and analysis services to support health care quality improvement projects and case review activities. Designing, developing, and maintaining databases and applications in FoxPro, MS Access, and Oracle.

Topeka Public Schools, USD 501, Topeka, Kansas

Applications Specialist - November 1995 - March 1997

Designing, developing, and maintaining applications in FoxPro, Cobol, CICS, IDEAL, and Datacom SQL.

Monaco Associates, Inc., Topeka, Kansas

Programmer - January 1998 - August 1998 (part time)

Enhancing applications in Visual Basic and developing reports using Crystal Reports.

Zhejiang Normal University, Jinhua, Zhejiang, China

Instructor - July 1989 - May 1991

Courses taught: Freshmen English Reading, Freshmen English Grammar.

Professional Interests

Database Management Systems
Software Engineering
Systems Analysis & Design
Global Information System Issues
Information Systems in Health Care
Agile Software Development
Distributed Systems

Publications

- 1) Wenying Sun, Miguel Aguirre-Urreta, Hee Seok Nam (2019), "Search and Research on Economics of Pair Programming", *Journal of Computer Information Systems*, 59(1), 15-31.
- 2) Wenying Sun, Cecil Schmidt (2018), "Practitioners' Agile Methodology Use and Job Perceptions", *IEEE Software*, 35(2), 52-61.
- 3) Wenying Sun, Cecil Schmidt (2018) "Control Mechanisms and Agile Methodology Use: Data from the Industry", *Journal of Computer Information Systems*, 58(3), 234-243.
- 4) Cecil Schmidt, Wenying Sun (2018), "Synthesis of Knowledge Discovery Process Models: Results from a Case Study", *Journal of Computer Information Systems*, 58(2), 142-150.
- 5) Wenying Sun, George Marakas, Miguel Aguirre-Urreta (2016), "Effectiveness of Pair Programming: Perceptions of Software Professionals", *IEEE Software*, 33(4), 72-79.
- 6) Wenying Sun, Miguel Aguirre-Urreta, George Marakas (2015), "Effectiveness of Pair and Solo Programming Methods: A Survey and an Analytical Approach", *Proceedings of the Twenty-First Americas Conference on Information Systems*, Puerto Rico, August 13-15.

- 7) Wenying Sun, Hee Seok Nam (2014), "Cost Effectiveness of Programming Methods – A Replication and Extension", Proceedings of the Twentieth Americas Conference on Information Systems, Savannah, Georgia, August 6 – 9.
- 8) Robert Boncella, Wenying Sun, Carol Boncella (2014), "Information Technology and Human Factors Affecting Active Medication List Accuracy", Journal of Computer Information Systems, 55(1), 59-69.
- 9) Wenying Sun, Cecil Schmidt (2013). "Do Software Professionals' Job Perceptions Differ in Organizations Adopting Different Software Process Models? A Survey from the Industry", Proceedings of the Nineteenth Americas Conference on Information Systems, Chicago, Illinois, August 15-17.
- 10) Robert Boncella, Wenying Sun, Carol Boncella (2013), "Information Technology and Human Factors Affecting the Accuracy of the Active Medication List: An Empirical Study Based on Three Hospitals", Proceedings of the Nineteenth Americas Conference on Information Systems, Chicago, Illinois, August 15-17.
- 11) Robert Boncella, Wenying Sun, Carol Boncella (2013), "Research Model to Identify the Characteristics of an Effective Medicine 2.0 Application", Proceedings of the Southern Association for Information Systems Conference, Savanna, Georgia, March 8-9.
- 12) Cecil Schmidt, Wenying Sun, Donna LaLonde (2012), "Operationalizing Information Literacy and Technology in a General Education Computer Science Course", Journal of Computing Sciences in Colleges, 28(5), 176-183.
- 13) Wenying Sun, Miguel Aguirre, George Marakas (2012), "Economics of Pair Programming Revisited", Proceedings of the Eighteenth Americas Conference on Information Systems, Seattle, Washington, August 9-11.
- 14) Robert Boncella, Wenying Sun, Carol Boncella (2012), "Information Technology and Human Factors Affecting the Accuracy of Automated Patient Medication Reporting Systems", Issues in Information Systems, 13(1), 167-176.
- 15) Miguel Aguirre, Mike Ellis, Wenying Sun (2012), "Performance of a Proportion-Based Approach to Meta-Analytic Moderator Estimation: Results from Monte Carlo Simulations", Research Synthesis Methods, 3(1), 11–29.
- 16) Miguel Aguirre, Mike Ellis, Wenying Sun, and others (2010), "How Many Technology Types are there? Preliminary Results from the Technology Acceptance Literature", Proceedings of the Sixteenth Americas Conference on Information Systems, Lima, Peru, August 12-15.
- 17) Wenying Sun, George Marakas (2009), "The True Cost of Pair Programming: Development of a Comprehensive Model and Test", Proceedings of the Fifteenth Americas Conference on Information Systems, San Francisco, California, August 6-9.
- 18) Virginia Ilie, Sweta Sneha, Wenying Sun (2009), "Socio-Cognitive Assessment of Physicians' Engagement with Electronic Medical Records (EMR): A Pre-EMR Implementation Study in Developing Countries", Proceedings of the Fifteenth Americas Conference on Information Systems, San Francisco, California, August 6-9.

- 19) Miguel I. Aguirre-Urreta, Wenying Sun, Mike Ellis (2009), "Performance of A Proportion-based Approach to Meta-Analytic Moderation: Results from Simulations", Academy of Management Conference, Chicago, Illinois, August 7-11.
- 20) Wenying Sun, Miguel I. Aguirre-Urreta, Mike Ellis, George Marakas (2008), "There All Along? A Preliminary Meta-Analysis of the Moderating Gender Effects in Technology Acceptance Research", Proceedings of the Fourteenth Americas Conference on Information Systems, Toronto, Ontario, Canada, August 14-17.
- 21) Miguel I. Aguirre-Urreta, George Marakas, Mike Ellis, Wenying Sun (2008), "A Monte Carlo Investigation of Partial Least Squares, with for Both Structural and Measurement Models", Proceedings of the Fourteenth Americas Conference on Information Systems, Toronto, Ontario, Canada, August 14-17.
- 22) Mike Ellis, Miguel I. Aguirre-Urreta, Wenying Sun, George Marakas (2008), "Establishing the Need for Measurement Invariance in Information Systems Research: A Step-By-Step Example Using Technology Acceptance Research", Proceedings of the 39th Annual Meeting of the Decision Sciences Institute, Baltimore, Maryland, November 22-25.
- 23) Wenying Sun, Robert Boncella (2007), "Transnational Higher Education: Issues Effecting Joint Degree Programs among US and Chinese Schools", Issues in Information Systems, 8(1), 65-70.
- 24) Wenying Sun, Jack Decker (2006), "Student Perceptions of Teaching Ability – The Rest of the Story", Journal of Computing Sciences in Colleges, 21(1).
- 25) Wenying Sun (2006), "U.S. vs. China: Women Faculty in Computer Science", Issues in Information Systems, 7(1), 324-329.
- 26) Wenying Sun, Robert Boncella (2005), "An Evaluation of Three Chinese CS&T Curricula", Proceedings of the Eleventh Americas Conference on Information Systems, Omaha, Nebraska, August 11-14.
- 27) Wenying Sun, Jack Decker (2004), "Finding an 'Ideal' Model for our Capstone Experience", Journal of Computing Sciences in Colleges, 20(1), 211-219.
- 28) Robert Boncella, Gerrald Reed, Wenying Sun (2004), "Software Project Management Scenarios of Failure and Potential Solutions", reprinted in Software Project Management published by Institute of Chartered Financial Analysts of India (ICFAI) University Press.
- 29) Robert Boncella, Gerrald Reed, Wenying Sun (2004), "Software Project Management Scenarios of Failure and Potential Solutions", reprinted in the September 04 issue of "Profits and Projects" magazine published by Institute of Chartered Financial Analysts of India (ICFAI) University Press.
- 30) Robert Boncella, Gerrald Reed, Wenying Sun (2004), "Software Project Management Scenarios of Failure and Potential Solutions", Proceedings of the 7th Annual Conference of the Southern Association for Information Systems, Savannah, Georgia, February 27-28.
- 31) Jack Decker, Wenying Sun (2003), "Implementing the IEEE/ACM CC2001-CS Model", Journal of Computing Sciences in Colleges, 19(1), 147-159.

- 32) Robert Boncella, Gerrald Reed, Wenying Sun (2003), "A Course Sequence to Address Causes of Software Project Failure", Proceedings of the 6th Annual Conference of the Southern Association for Information systems, Savannah, Georgia, March 7-8.

Mentoring/Directing the following student research projects that resulted in publications:

- 33) Gideon Hockenbarger, Nan Sun, John Haverty, Homer Manila (2023) "Lost and Found: Testing Cybersecurity Preparedness at a University", Issues in Information Systems, 24(1), pp.260-269.
- 34) Sarah Campbell, Nan Sun (2023) "Web Design: Digital Literacy and User Preference", Issues in Information Systems, 24(1), pp.222-232.
- 35) Edward Baker, Angelica Comahig, Brett Kulp, Justin Smith, Nan Sun (2022) "A Survey to Assess Public Perception of Right to Repair for Electronic Devices", Issues in Information Systems, 23(1), pp.268-280.
- 36) Skyler Saunders, Mara Gilbreath, Alejandra Alonso-Olivas, Vladislav Baidin, Nan Sun (2022) "Online Gaming Habits and Course Structure Preferences", Issues in Information Systems, 23(1), pp.281-292.
- 37) Dane Vanderbilt, Kun Xie, Wenying Sun (2020), "An Applied Study of RNN Models for Predicting Cryptocurrency Prices", Issues in Information Systems, 21(2), pp. 135-143.
- 38) Cian Renner, Tyler Cross, Daniel Corrales, Wenying Sun (2020), "A Study of the Role of VR in Mental Health Based on Public Opinion", Issues in Information Systems, 21(2), pp.112-122.
- 39) Tucker Schell, Aaron Spero, Benjamin Wolf, Christopher Ford, Yuquan Hong, Wenying Sun (2018), "Social Media Bots and Automation: Comparing and Contrasting Two Social Media Platforms' Susceptibility to Bot Abuse", Issues in Information Systems, 19(1), 118-127.
- 40) Isaac R. Cason, Aaron Morris, Brandon Habig, Wenying Sun (2018), "Charge Me: A Comparison of Electrical Efficiency in Cryptocurrency Mining Algorithms", Issues in Information Systems, 19(1), 139-149.
- 41) Angela Kiamco, Jessica Lancaster, Tisha Prather, Abida Syed, Wenying Sun (2018), "To Browse or to Purchase? Which Device Is the Answer?", Issues in Information Systems, 19(1), 150-158.
- 42) Benjamin Zhang, Harry Peterson, Wenying Sun (2017), "Perception of Digital Surveillance: A Comparative Study of High School Students in the U.S. and China", Issues in Information Systems, 18(1), 98-108.
This paper won 2017 IACIS Jay Liebowitz Student Research Award.
- 43) William Oliver, Nathan Purcell, Sergio Salas, Rory MacDonald, Wenying Sun (2015), "Explaining the Gap between Enrollment and Employment in Computer Information Sciences", Issues in Information Systems, 16(1), 210-218.

- 44) Michaela Saunders, Keval Shah, Zachary Smith, Wenying Sun (2015), “What Makes them Click: Gender, Social Media & the College Audience”, *Issues in Information Systems*, 16(1), 170-179.
This paper won 2015 IACIS Jay Liebowitz Student Research Award.
- 45) Hezekiah J. Phelps, Jacob Dobler, Zachery T. Glenn, Wenying Sun (2013), “The Effect of Social Activities on Pair Programming: Results from an Experiment”, *Issues in Information Systems*, 14(1).
- 46) Skyler J. Bock, Lindsay J. Taylor, Zachary E. Phillips, Wenying Sun (2013), “Women and Minorities in Computer Science Majors: Results on Barriers from Interviews and a Survey”, *Issues in Information Systems*, 14(1).
This paper won 2013 IACIS Jay Liebowitz Student Research Award.
- 47) Taylor Drain, Keisha Grier, Wenying Sun (2012). “Is the Growing Use of Electronic Devices Beneficial to Academic Performance? Results from Archival Data and a Survey”, *Issues in Information Systems*, 13(1), 225-231.
This paper won 2013 IACIS Jay Liebowitz Student Research Award.
- 48) Elizabeth Unrein, Delaney Fish, Joshua Boeker, Wenying Sun (2012), “Living in Denial – A Comparison of Distributed Denial of Services Mitigation Methods”, *Issues in Information Systems*, 13(1), 190-198.

Winner of Ben Bauman Award for Excellence, October 2017, which was presented by the International Association for Computer Information Systems in recognition of exceptional promise and excellence as a university faculty member.

Winner of the Director’s Award, October 2015, which was presented by the International Association for Computer Information Systems Board of Directors in recognition of excellence in guiding student academic achievement and contributing to the IACIS mission of developing knowledge and skills of information systems and technology professionals.

Presentations

- 1) “Web Design: Digital Literacy and User Preference”, presented in the 63rd International Association of Computer Information Systems Conference, Clearwater, Florida, October 2023.
- 2) “Explaining the Gap between Enrollment and Employment in Computer Information Sciences”, presented in the 55th International Association of Computer Information Systems Conference, Clearwater, Florida, October 2015.
- 3) “Cost Effectiveness of Programming Methods – A Replication and Extension”, presented in the 20th Americas Conference on Information Systems, Savannah, Georgia, August 2014.
- 4) “Do Software Professionals’ Job Perceptions Differ in Organizations Adopting Different Software Process Models? A Survey from the Industry”, presented in the 19th Americas Conference on Information Systems, Chicago, Illinois, August 2013
- 5) “Information Technology and Human Factors Affecting the Accuracy of the Active Medication List: An Empirical Study Based on Three Hospitals”, presented in the 19th Americas Conference on Information Systems, Chicago, Illinois, August 2013

- 6) "Economics of Pair Programming Revisited", presented in the 18th Americas Conference on Information Systems, Seattle, Washington, August 2012
- 7) "Information Technology and Human Factors Affecting the Accuracy of Automated Patient Medication Reporting Systems", presented in the 52rd Annual International Association of Computer Information Systems Conference, Myrtle Beach, South Carolina, October 2012
- 8) "The True Cost of Pair Programming: Development of a Comprehensive Model and Test", presented in the International Conference on Information Systems Doctoral Consortium, St. Louis, December 2010
- 9) "The True Cost of Pair Programming: Development of a Comprehensive Model and Test", presented in the 15th Americas Conference on Information Systems, San Francisco, California, August 2009
- 10) "The True Cost of Pair Programming: Development of a Comprehensive Model and Test", presented in the Big XII Plus IS Symposium, University of Nebraska, April 2009
- 11) "There All Along? A Preliminary Meta-Analysis of the Moderating Gender Effects in Technology Acceptance Research", presented in the 14th Americas Conference on Information Systems, Toronto, Canada, August 2008
- 12) "There All Along? A Preliminary Meta-Analysis of the Moderating Gender Effects in Technology Acceptance Research", presented in the Big XII Plus IS Symposium, University of Texas Tech, April 2008
- 13) "Transnational Higher Education: Issues Effecting Joint Degree Programs among US and Chinese Schools", presented in the 47th Annual International Association of Computer Information Systems Conference, Vancouver, October 2007
- 14) "U.S. vs. China: Women Faculty in Computer Science", Presented in the 46th Annual International Association of Computer Information Systems Conference, Reno, NV, October 2006
- 15) "An Evaluation of Three Chinese CS&T Curricula", Presented in the 11th Americas Conference on Information Systems, Omaha, Nebraska, August 2005
- 16) "Finding an 'Ideal' Model for our Capstone Experience", presented in the 13th Annual Consortium for Computing Sciences in Colleges Rocky Mountain Conference, Utah Valley State College, Orem, Utah, October 2004
- 17) "Implementing the IEEE/ACM CC2001-CS Model", Presented in the 12th Annual Consortium for Computing Sciences in Colleges Rocky Mountain Conference, Western New Mexico University, Silver City, New Mexico, October 2003