

Xue Bai

CONTACT INFORMATION	Temple University, Fox School of Business 1801 Liacouras Walk, Alter Hall 512 Philadelphia, PA 19122	Office: (215) 204-4164 E-mail: xue@temple.edu
ACADEMIC POSITION	Associate Professor with Tenure Milton F. Stauffer Senior Research Fellow Department of Management Information Systems Department of Marketing and Supply Chain Management <i>Fox School of Business</i> Temple University Philadelphia, PA USA	Jul 2018 - present
	Associate Professor with Tenure Department of Operations and Information Management <i>School of Business</i> University of Connecticut , Storrs, CT USA	Aug 2012 - Jul 2018
	Assistant Professor Department of Operations and Information Management <i>School of Business</i> University of Connecticut , Storrs, CT USA	Aug 2007 - Aug 2012
EDUCATION	Ph.D. Management Information Systems, <i>School of Information Systems and Management</i> The H. John Heinz III College Carnegie Mellon University , Pittsburgh, Pennsylvania USA	Aug 2007
	M.S. Data Mining and Machine Learning, <i>The School of Computer Science</i> Carnegie Mellon University , Pittsburgh, Pennsylvania USA	May 2005
	M.Phil. Management Science and Information Systems, <i>School of Information Systems and Management</i> The H. John Heinz III College Carnegie Mellon University , Pittsburgh, Pennsylvania USA	Dec 2002
	B.S. Management Information Systems, <i>The School of Economics and Management</i> Tsinghua University , Beijing, China	Jul 2000
INDUSTRY EXPERIENCE	Research Internship Business and Analytics Division, IBM Research, Thomas J. Watson Center, NY.	Jun – Aug 2005

Research Consultant
PricewaterhouseCoopers LLP, Center for Advanced Research, CA

May 2005

RESEARCH
INTERESTS

Data analytics and data mining
Mathematical modeling and optimization
Online social networks and online platforms

TEACHING
INTERESTS

Management Information Systems
Database Management
Data mining and Business Analytics

REFEREED
JOURNAL
ARTICLES

What Will Be Popular Next? Predicting Hotspots in Two-mode Social Networks. with L. Lee and Y. Ge, *Management Information Systems Quarterly*. Forthcoming.

Leveraging Slack Capacity in IaaS Contract Cloud Services. with L. Du and M. A. Nunez. *Production and Operations Management*. Forthcoming.

X. Bai, J. Marsden and W. Ross, G. Wang. A Note on the Impact of Daily Deals on Local Retailers' Online Reputation: Mediation Effects of the Consumer Experience. *Information Systems Research*. **31** (4): Pages iii-viii. 1132-1143. December 2020.

P. Bhattacharya, T. Phan, X. Bai, E. M. Airoidi. 2018. A Co-Evolution Model of Network Structure and User Behavior in Online Social Networks: The case of Network-Driven Content Generation. *Information Systems Research*. **30**(1): Pages iii-viii, March 2019.

K. Zhao, B. Zhang, X. Bai. 2018. Estimating Contextual Motivating Factors in Virtual Inter-organizational Communities of Practice: Peer Effects and Organizational Influences. *Information Systems Research*. **29** (4): Pages iii-viii, December 2018.

Q. Li, X. Guo, X. Bai. W. Xu, 2018. Investigating microblogging addiction tendency through the lens of uses and gratifications theory. *Internet Research*. **28**(5), pages 1228-1252, July 2018.

X. Bai, J. Marsden, W. Ross, G. Wang. 2017. How e-WOM and local competition drive local retailers' decisions about daily deal offerings *Decision Support Systems*. **101**: 82-94, 2017.

Q. Li, X. Guo, X. Bai. 2017. Weekdays or Weekends: Exploring the Relationships between Microblog Posting Patterns and Addiction. *Information and Management*. **54**(5), pages 613-624, June 2017.

Z. Li, X. Fang, X. Bai, O. Sheng. 2017. Utility-based Link Recommendation for Online Social Networks. *Management Science*. **63**(6), pages 1938-1952, 2017.

H. J. Wang, J. Li, X., Bai. 2015. An Intelligent Approach to Data Extraction and Task Identification for Process Mining. *Information Systems Frontier*. **17**(6) pages 1195-1208, 2015.

- X. Bai, S. Bhattacharjee, F. Boylu, R. D. Gopal. 2015. Growth Projections and Assortment Planning of Commodity Products Across Multiple Stores: A Data Mining and Optimization Approach. *INFORMS Journal on Computing*. **27**(4) pages 619–635, 2015.
- X. Bai, J. Marsden, W. Ross, G. Wang. 2015. Relationships among Minimum Requirements, Facebook Likes, Quantity of Coupons Sold, and Total Revenue. *ACM Transactions on Management Information Systems*. **6**(3) pages 9:1–28, 2015.
- X. Bai, R. D. Gopal, M. Nunez, D. Zhdanov. 2014. A Decision Methodology for Managing Operational Efficiency and Information Disclosure Risk in Healthcare Processes. *Decision Support Systems*. **57**(1) pages 406–416, 2014.
- X. Bai, R. Krishnan, R. Padman, H. Wang. 2013. On Risk Management with Information Flows in Business Processes. *Information Systems Research*. **24**(3) pages 731–744, 2013.
- X. Bai. 2012. A Mathematical Framework for Data Quality Management in Enterprise Systems. 2012. *INFORMS Journal on Computing*. **24**(4) pages 648–664, 2012.
- X. Bai, R. D. Gopal, M. Nunez, D. Zhdanov. 2012. On The Prevention of Fraud and Privacy Exposure in Process Information Flow. *INFORMS Journal on Computing*. **24**(3) pages 416–432, 2012.
- X. Bai, M. Nunez, J. Kalagnanam. 2012. Managing Data Quality Risk in Accounting Information Systems. *Information Systems Research*. **23** (3) pages 453–473, 2012.
- X. Bai, M. Luo. 2011. How Much is Trust Worth: Evidence from the International Online Textbook Market. *Journal of Internet Commerce*. **10**(4) pages 241–252, 2011.
- E. M. Airoldi, X. Bai, C. Carley. 2011. Network Sampling and Classification: An Investigation of Network Model Representations. *Decision Support Systems*. **51**(3) pages 506–518, 2011.
- E. M. Airoldi, X. Bai, B. Malin. 2011. An Entropy Approach to Disclosure Risk Assessment: Lessons from Real Applications and Simulated Domains. *Decision Support Systems*. **51**(1) pages 10–20, 2011.
- X. Bai, 2011. Predicting Consumer Sentiments from Online Text. *Decision Support Systems*. **50**(4) pages 732–742, 2011.
- X. Bai, R. D. Gopal, M. Nunez, D. Zhdanov. 2010. Managing Information Security Risk in Business Processes. *International Journal of Decision Sciences*. **1**(1) pages 45–53, 2010.
- X. Bai, R. Padman, J. D. Ramsey, P. Spirtes. 2008. Tabu Search Enhanced Graphical Models for Classification in High Dimensions. *INFORMS Journal on Computing*. **20**(3) pages 423–437, 2008.

HONORS AND
AWARDS

Milton F. Stauffer Senior Research Fellow. Temple University. 2018 - 2023.

INFORMS ISS Design Science Award. 2016.

Ackerman Scholar Award. UConn School of Business. 2014–2016.

5-Year Research Excellence Award. UConn School of Business. 2013.

Best Research Paper Award. UConn School of Business. 2011.

Best Instructional Technology Award. The 20th Workshop on Information Technologies and Systems (WITS) 2010.

Doctoral Fellowships. Carnegie Mellon University. 2000-2007.

GuSH Foundation Award. Carnegie Mellon University. 2005.

Student Conference Travel Award. Carnegie Mellon University. 2004.

Distinguished Undergraduate Student Award. Tsinghua University, China. 1996-2000.

Chinese National Mathematics Olympic Competition, First Class prize. China. 1995.

GRANTS

National Natural Science Foundation of China Grant No. 71301163. 2014-2016

National Natural Science Foundation of China Grant No. 71202121. 2013-2015

Connecticut Information Technology Institute (CITI) Research Grant 2013-2016

UConn School of Business Dean’s Research Grant 2012

Connecticut Information Technology Institute (CITI) Research Grant 2009-2011

PATENT

Patent No. US 20070198312 A1 August 23 2007
Title “Quality Management Model using Business Process Modeling”
with Bagchi S. and Kalagnanam J., Business & Analytics Division, IBM Research, Thomas
J. Watson Center

REFEREED
CONFERENCE
PROCEEDINGS

K. Zhao, B. Zhang, X. Bai. Who Motivates My Participation in Virtual Interorganizational
Communities of Practice: Self, Peers, or the Firm? In *Proceedings of the 37th International
Conference on Information Systems (ICIS2016)*, Dublin, Ireland, December 11-14, 2016.

Q. Li, X. Guo, X. Zhao, X. Bai. Weekdays or Weekends: Exploring the Relationships
between Microblog Posting Patterns and Addiction. In *Proceedings of the 34th International
Conference on Information Systems (ICIS2013)*, Milan, Italy, December 14-15, 2013.

H. J. Wang, J. Li, X., Bai. Towards an Intelligent Approach to Extracting Data for Pro-

cess Mining. Proceedings of the *SIGBPS Workshop on Business Processes and Services*. December 13-14, 2012.

X. Bai, S. Bhattacharjee, F. Boylu, R. D. Gopal. Improving Multiple Store Product Portfolios and Performance: A Data Mining and Optimization Based Decision Model. *The Eighth Symposium on Statistical Challenges in Electronic Commerce Research (SCECR2012)*, Montreal CA. June 27, 2012.

X. Bai, R. D. Gopal, M. Nunez, D. Zhdanov. 2010. A Decision Methodology for Managing Operational Efficiency and Information Disclosure Risk in Healthcare Processes. *Workshop on Healthcare and IT*, University of Florida, Gainesville, FL, February 11-12, 2011.

X. Bai, H. J. Wang. 2010. Process Analysis and Design using Process Management Systems. *Proceedings of the 20th Workshop on Information Technologies and Systems (WITS 2010)*, St. Louis, Missouri, December 11-12, 2010.

X. Bai, R. D. Gopal, M. Nunez, D. Zhdanov. 2010. On The Prevention of Fraud and Privacy Exposure in Process Information Flow. *Proceedings of the Conference on Information Systems and Technology (INFORMS CIST 2010)*. Austin, Texas. November 6-7, 2010.

X. Bai, R. D. Gopal, M. Nunez, D. Zhdanov. Reducing Privacy Exposure in Healthcare Workflows. *The Workshop on Health IT and Economics (WHITE 2010)*. Washington, DC. October 8-9, 2010.

X. Bai, R. Krishnan, R. Padman. 2008. On Risk Management in Business Information Flow: A Process-Modeling Approach. In: *Proceedings of the 5th Workshop on Secure Knowledge Management (SKM 2008)*. Dallas, TX page 20-21.

R. Padman, X. Bai, E. M. Airoidi. 2007. A New Machine Learning Classifier for High Dimensional Healthcare Data. In: *Medinfo 2007: Proceedings of the 12th World Congress on Health (Medical) Informatics; Building Sustainable Health Systems*. Kuhn, Klaus A (Editor); Warren, James R (Editor); Leong, Tze-Yun (Editor). Amsterdam: IOS Press, 2007. Studies in health technology and informatics, ISSN 0926-9630. pages: 664-668

X. Bai, R. Krishnan, R. Padman. 2007. Design of Risk Management Strategies in Business Process Information Flow. In *Proceedings of the 28th International Conference on Information Systems (ICIS2007)*, Montreal, Quebec, Canada, December 9-12, 2007.

X. Bai, R. Krishnan, R. Padman. 2006. Risk Management Models for Business Process Design. In *Proceedings of the 5th Workshop on e-Business (WeB2006)*, page 48-53.

S. Bagchi, X. Bai, J. Kalagnanam. 2006. Data Quality Management using Business Process Modeling. In *Proceedings of IEEE International Conference on Services Computing (SCC2006)*, IEEE Services Computing, page 398-405.

X. Bai, R. Padman, E.M. Airoidi. 2005. On Learning Parsimonious Models for Extracting Consumer Opinions. In *Proceedings of the 38th Hawaii International Conference on System Science (HICSS)*, IEEE Computer Society, page 75.2.

X. Bai, P. Spirits, R. Padman. 2005. Tabu Search Enhanced Markov Blanket Classifier for High Dimensional Data Sets. In B. Golden, S. Raghavan, and E. Wasil, editors, *The Next Wave in Computing, Optimization, and Decision Technologies, Operations Research and Computer Science Interfaces Series*. Vol. 29, page 337-354, Kluwer Academic Publisher.

X. Bai. 2004. Internet enabled arbitrage: Evidence from the international online textbook market. In *Proceedings of the 8th INFORMS Conference of Information Systems and Technology (INFORMS CIST 2004)*.

TEACHING
EXPERIENCE

Instructor

School of Business, **Temple University**

1. *Business Information Systems (MIS2101)* Fall 2018 - Spring 2019
– An undergraduate core course for required of business majors
2. *Information Management for Marketing Strategies (MKTG3502)* Fall 2019 - present
– An elective course for business majors

School of Business, **University of Connecticut**

1. *Business Information Systems (OPIM3103)* Fall 2007 - Spring 2015
– An undergraduate core course for required of business majors
2. *Database Management Systems (OPIM3221)* Fall 2009 - Fall 2013
– A capstone course for the MIS major
3. *Database Management and Business Process Modeling (OPIM5272)* Fall 2015 - present
– A core course for the MSBAPM program
4. *Data Mining and Business Intelligence (OPIM5671)* Spring 2017 - present
– A core course for the MSBAPM program

SERVICES

Ph.D. Student Advising

- 1 *PhD Committee Member and Co-Advisor*
– Lionel Li, currently Assistant Professor of MIS at Schulich School of Business, York University
- 2 *PhD Committee Member and Co-Advisor*
– Gang Wang, currently Assistant Professor of MIS at Lerner College of Business & Economics, University of Delaware

Undergraduate Student Advising

- | | |
|--|-----------------------|
| 1 Supervisor,
– Honors course projects in undergraduate business majors | Fall 2008 - Fall 2016 |
| 2 Faculty advisor,
– Undergraduate advising of MIS students | Fall 2007 - present |

Service to the Academic Community

1. Editorial Services

Associate Editor, *Information Systems Research*, 2013 - present
 Associate Editor, *Decision Support Systems*, 2017 - present
 Senior Editor, *Production and Operations Management*, 2019 - present
 Associate Editor, *INFORMS Journal on Data Science (IJDS)*, 2020 - present
 Associate Editor, *International Conference on Information Systems (ICIS)*, 2013, 2015

2. Reviewer for Journals

Information Systems Research,
Management Science,
MIS Quarterly,
INFORMS Journal on Computing,
Decision Support Systems,
IEEE Systems, Man and Cybernetics,
ACM Transactions on Management Information Systems,
Decision Sciences Journal,
Journal of Database Management,
Electronic Commerce Research and Applications,
Information Systems Management

3. Reviewer for Conference Proceedings

ICIS 2007, ICIS 2008, ICIS 2009, ICIS 2010, ICIS 2011
 WITS 2006, WITS 2007, WITS 2008, WITS 2009, WITS 2010, WITS 2011, WITS 2012
 CIST 2008, CIST 2009, CIST 2010, CIST 2011, CIST 2012
 ECIS 2009 (The 18th European Conference on Information Systems)
 PACIS 2007

4. Invited Program Committee Member

WITS 2008, WITS 2009, WITS 2010, WITS 2011
 CIST 2009, CIST 2010, CIST 2011

5. Invited Session Chair

WITS 2009, WITS 2010, WITS 2011

CIST 2009, CIST 2010, CIST 2011

Service to the Department of Operations and Information Management

1. Faculty Recruiting Committee (both Tenure track and In-residence), 2014-15; 2015-16
2. MSBAPM Curriculum Redesign Committee, 2016-present
3. PhD Committee, 2016
4. Journal Evaluation Committee, 2016-2017
5. Department PTR Committee, Fall 2015
6. Undergraduate MIS Program Committee, 2008 - 2016
7. PhD recruiting Committee, 2012
8. MSBAPM recruiting Committee, 2012 - 2016
9. MSBAPM outreach Committee, 2012 - 2013
10. Coordinator, OPIM Department seminar, 2008 - 2013
11. Co-Organizer and Host, CIO lecture series, Fall 2007 - present
12. MIS Social and career fair, Fall 2008 - present
13. MIS Scholarships and MIS Certificate ceremonies, Spring 2009 - present
14. Business School Open Houses and the University Open Houses, Fall 2008 - present
15. Undergraduate MIS Scholarship and Awards Committee, Spring 2009 - present
16. Participant, MIS Program website redesign. Spring 2011
17. Design and promotion of the Certificate in MIS. Fall 2008, Fall 2009
18. Ph.D. Qualifying exams preparation and grading. Spring 2008- present

Service to the School of Business and the University

1. School-Level Masters Program Committee, 2015-present
– School of Business.
2. Department Representative, May 2008, May 2010
– University Graduation Commencements.

3. Department Representative, May 2011, 2013
– Undergraduate Commencement, School of Business.
4. Department Representative, August 2008, August 2009
– University Convocation.
5. Department Representative, December 2007
– Winter University Graduation Commencement.
6. Faculty advisor, Fall 2008 - present
– Asian Christian Student Association, University of Connecticut.