

JIAN JAMES MA, Ph.D.

CONTACT **Office:** +1 (719) 255-3496
Email: jma@uccs.edu
Web: <http://www.uccs.edu/jma>

EDUCATION

- December 2011** **UNIVERSITY OF ARIZONA, Tucson, Arizona**
Ph.D., Management Information Systems
Minor: Systems and Industrial Engineering
- May 2002** **UNIVERSITY OF TEXAS at DALLAS, Richardson, Texas**
M.S., Computer Science
- September 1996** **PEKING UNIVERSITY, Beijing, China**
B.S., Chemistry

EMPLOYMENT

- 06/2018-Present** **ASSOCIATE PROFESSOR WITH TENURE**
University of Colorado, Colorado Springs
- 05/2014-06/2018** **ASSISTANT PROFESSOR**
University of Colorado, Colorado Springs
- 08/2012-05/2014** **ASSISTANT PROFESSOR**
Colorado State University-Pueblo, Pueblo, Colorado
- 07/2010-Present** **FOUNDER AND PRESIDENT**
Pacific Leap LLC, Gilroy, California
Ivy Overseas Education, China
- 08/2008-07/2010** **INSTRUCTOR**
Menlo College, Atherton, California
- 07/2008-07/2009** **SENIOR SCIENTIST**
Cataphora, Inc., Redwood City, California
- 05/2003-06/2008** **RESEARCH ASSOCIATE**
University of Arizona, Tucson, Arizona
- 05/2001-05/2002** **SYSTEM ENGINEER (CO-OP)**
Santera Systems, Inc., Plano, Texas

RESEARCH EXPERIENCE

- **Research Interest:** *medical big data analysis, health informatics, big data, web mining, text mining, social networking, random graph theory, complex systems, open source software, spatial-temporal data analysis, and web site comprehensibility analysis, etc.*
- **Reviewer:** *Information Systems Research (ISR), Information & Management, IEEE Intelligent Systems, IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM Transactions on Management Information Systems (TMIS), International Conference on Information Systems (ICIS), Workshop on Information Technologies and Systems (WITS), Hawaii International Conference on System Sciences (HICSS), Workshop on e-Business (WeB), and China Summer Workshop on Information Management (CSWIM), etc.*
- **Invited Talk:** *Colorado State University at Fort Collins, University of Denver, Chinese Academy of Sciences (Institute of Automation), Nankai Hospital, China Construction Seventh Engineering Division. Corp. LTD (CSCEC), Zhengzhou University, Ningxia University, Henan University of Technology, Zhongyuan University of Technology, Fujian University of Technology, Yuan ze University at Taiwan, and National Taiwan University of Science and Technology, etc.*

TEACHING EXPERIENCE

- Big Data, Business Analytics, Database Management, Software Development (Java), Management Information Systems, Linux, Server-side Web Design, and Telecommunication and Network, etc.

PROFESSIONAL ACTIVITIES

- **Editor in Chief,** *International Journal of Electronic Healthcare (IJEH) (October 2019 – Present)*
- **Vice President of Strategic Partnerships,** *Association for Information Systems (AIS) (July 2019 – Present)*
- **Information Director,** *ACM Transactions on Management Information Systems (TMIS) (September 2017 – Present)*
- **UCCS Daniels Fund Ethics Initiative Fellow**
- **Council Member,** *Specialty Committee of Respiratory Disease of World Federation of Chinese Medicine Societies*
- **Member,** *Association for Information Systems (AIS)*

HONORS

- **President's Volunteer Service Award, Signed by President Donald Trump** (2019)
- **Outstanding Teacher Award,** *University of Colorado, Colorado Springs* (2016)
- **SEED Research Grant,** *Colorado State University – Pueblo* (2013)
- **Faculty Development Research Grant,** *Colorado State University – Pueblo* (2012)
- **Research Grant,** *Huawei Technology Inc.* (2011)
- **Dean's Teaching Award,** *University of Arizona* (2008)
- **Scholarship of Texas Public Education,** *University of Texas at Dallas* (2000 – 2002)
- **Scholarship of Excellent Activities,** *Peking University* (1992 – 1995)

PUBLICATIONS

- Journal**
- “Readmission Prediction for Patients with Heterogeneous Hazard: A Trajectory-Based Deep Learning Approach,” Jiaheng Xia, James Ma, Bin Zhang, and Daniel Zeng, submitted to *Information Systems Research* (**under second round review**)
 - “Analyzing RFID-Based In-Store Shopping Paths for Real-Time Customer Segmentation,” James Ma, Luwen Huangfu, Ping Yan, and Daniel Zeng, submitted to *Information Systems Research* (**under review**)
 - “Characterizing Multiple E-cigarette Brands on Twitter by Content and Network Analysis,” Zhu Zhang, James Ma, Yongcheng Zhan, Scott Leischow, and Daniel Zeng, submitted to *Journal of the Association for Information Science and Technology* (**under review**)
 - “Understanding Open Source Software Developer Collaboration in Bug Fixing Process,” James Ma, Xiaolin Li, Julie Liu, and Daniel Zeng, submitted to *Journal of Computer Information Systems* (**under review**)
 - “Deep Learning Approach for Overweight Prediction on Food-Related Tweets,” Vivian Huangfu, James Ma, and Daniel Zeng, submitted to *Pacific Asia Journal of the Association for Information Systems* (**under review**)
 - “Identification of New Electronic Cigarette Users: A Recurrent Neural Network Approach,” Yongcheng Zhan and James Ma, submitted to *Journal of the American Medical Informatics Association* (**under review**)
 - “How IT Awareness Impacts IT Control Weaknesses and Firm Performance,” Peiqin Zhang, Ju Long, and James Ma, *Journal of International Technology and Information Management*, 2018, 27(2), pp 99-120
 - “Exploratory Analysis of Out-of-Hospital Days Based on Cancer Patients in China,” Vivian Huangfu, Stephen Hayne, James Ma, and Nick Roberts, *Pacific Asia Journal of the Association for Information Systems*, 2018, 10(4), pp 101-114
 - “Prevalence and Risk Factors of Comorbidities among Hypertensive Patients in China,” Jiaojiao Wang, James Ma, Jiaqi Liu, Daniel Dajun Zeng, Cynthia Song, and Zhidong Cao, *International Journal of Medical Sciences* (Impact Factor: 2.23), 2017, 14(3), pp 201-212
 - “Income Mobility and Dynamic Changes of China Households’ Long-term Income Inequality: Based on the Data from CHNS,” Zhiguo Liu and James Ma, *Journal of Finance and Economics (China)*, 2017, (2), pp 60-69, <http://cjjj.shufe.edu.cn/WKD/WebPublication/paperDigest.aspx?paperID=975b53d4-e40c-444d-a862-5e2acb9d365f>
 - “Who Entered into the In-system Sectors: the Role of Education and Family Background,” Zhiguo Liu and James Ma, *Statistics & Information Forum (China)*, 2016, 31(7), pp 76-82, <http://oversea.cnki.net/kcms/detail/detail.aspx?dbCode=cjfd&filename=TJLT201607012>
 - “Labor Market Sector Segmentation and the Advantage of Employment in-System,” Zhiguo Liu and James Ma, *Chinese Journal of Population Science (China)*, 2016, 4, pp 85-95, <http://www.zgrkx.com/Magazine/Show/34305>
 - “Whose Upward Space Has Been Squeezed: An Analysis of Income Mobility in China,” Zhiguo Liu and James Ma, *Economic Perspectives (China)*, 2016, 8, pp 53-60, <http://www.jjxd.org/Magazine?Issue=8&Year=2016>

- “Comorbidity Analysis According to Sex and Age in Hypertension Patients in China,” Jiaqi Liu, James Ma, Jiaojiao Wang, Daniel Dajun Zeng, Hongbin Song, Ligui Wang, and Zhidong Cao (co-first author), *International Journal of Medical Sciences* (Impact Factor: 2.23) 2016, 13(2), pp 99-107
- “Complex Network Analysis: A Comparison of Two Clustering Coefficient Definitions,” James Ma, Daniel Zeng, and Richard Huff, *Journal of International Technology and Information Management*, 2013, 22(4), pp 99-112
- “A Cross-Correlation Measure for Mining Spatial-Temporal Patterns,” James Ma, Daniel Zeng, and Huimin Zhao, *Journal of Database Management*, 2013, 24(2), pp 13-34
- “Modeling the Growth of Complex Software Function Dependency Networks,” James Ma, Daniel Zeng, and Huimin Zhao, *Information Systems Frontiers*, 2012, 14(2), pp 301-315
- “System for Infectious Disease Information Sharing and Analysis: Design and Evaluation,” Paul Jen-Hwa Hu, et al. James Ma, *IEEE Transactions on Information Technology in Biomedicine* (Impact Factor: 2.49), July 2007, 11(4), pp 483-492

Book Chapter

- “Time and Economic Burden of Comorbidities among COPD Inpatients,” Jiaqi Liu, James Ma, Jiaojiao Wang, Daniel Zeng, Hongbin Song, Ligui Wang, and Zhidong Cao, *Smart Health*, Springer, 2015, pp 187-195
- “Spatial-Temporal Data Analysis: HotSpot and Correlation Analysis in Infectious Disease Informatics,” Daniel Zeng, James Ma, et al., *Handbooks in Information Systems*, Emerald Group Publishing, Vol. 3, 2009.
- “Spatial-Temporal Cross-Correlation Analysis: A New Measure and A Case Study in Infectious Disease Informatics,” James Ma, Daniel Zeng, and Hsinchun Chen, *Intelligence and Security Informatics*, IEEE International Conference on Intelligence and Security Informatics, Springer Publishing, 2006, pp. 542-547.

Conference

- “Exploratory Study for Readmission in Cancer Patients,” Luwen Huangfu, Stephen Hayne, James Ma, and Nicholas Roberts, *Proceedings of Americas Conference on Information Systems* (AMCIS 2018), New Orleans, LA, USA, August 16-18, 2018
- “Geographical and Socioeconomic Disparity Analysis – An Empirical Study of Hypertension and Its Comorbidities in China,” James Ma, Jiaojiao Wang, Jiaqi Liu, and Zhidong Cao, *Proceedings of the Hawaii International Conference on System Sciences* (HICSS 2016), Kauai, HI, USA, January 5-8, 2016
- “Automatically Determining Web Site Comprehensibility,” James Ma, Zhu Zhang and Ray Garcia, *Proceedings of the 16th Workshop on Information Technologies and Systems* (WITS 2006), Milwaukee, WI, USA, December 9-10, 2006
- “Analyzing Software Function Call Graphs Using A Two-Phase Network Growth Model,” James Ma, Daniel Zeng and Michael Conover, *Proceedings of the Workshop on E-business* (WeB 2006), Milwaukee, WI, USA, December 9, 2006

Work in Progress

- “Dorm Transmission of 2009 Pandemic Influenza A (H1N1) among Students Isolated in A Six-Story Dormitory,” Zhidong Cao, Yong Wang, Hongbing

Song, Ligui Wang, James Ma, Jiaqi Liu, Jiaojiao Wang, and Daniel Zeng (co-second author), target: *Journal of the American Medical Informatics Association*

- “Creating Customer In-Store Movement Profiles for Real-Time Customer Segmentation,” Ping Yan, Daniel Zeng, and James Ma, target: *Journal of Management Information Systems*
- Multiple Queue-based Web Caching Replacement Strategies, James Ma and Daniel Zeng, target *Information Technology and Management*
- “Income Upward Mobility Analysis: a Case Study using 9 Years’ Income Data from China,” James Ma and Zhiguo Liu, target: *Journal of Finance and Economics*

TECHNICAL SKILLS

- **Languages:** Java, C/C++, C#, Python, SQL, ASP.NET, JSP, PHP, Perl, HTML
- **Servers:** Solr, Lucene, Apache http, Apache Tomcat, IIS
- **Architectural Design:** UML, DFD, ERD
- **Database Systems:** MySQL, SQL Server, Oracle, MS-Access
- **Data Analysis:** SAS, Stata, SPSS, R, Tableau
- **Operating Systems:** MS Windows, LINUX, MS-DOS
- **Applications:** Eclipse, Perforce, MS Visual Studio, Rational Rose, MatLab, Arena, MS Project, DreamWeaver, Flash, Photoshop

OTHER ACCTIVITIES

- Principal of Denver Chinese School, Highlands Ranch Campus (July 2019 – Present)
- Department Head of Student Sports and Recreations, Chinese Academy of Sciences (1996 – 1998)
- Department Head of Student Recreations, Peking University (1992 – 1995)
- Editor-in-Chief of the Journal of Chemistry Department, Peking University (1992 – 1995)