

Catherine Chen

EDUCATION

Doctor of Philosophy in Education, University of Minnesota, 1993

Master of Science in Business Education, Southern Illinois University at Carbondale, 1987

Bachelor of Science in Business Education, Southern Illinois University at Carbondale, 1985

ADMINISTRATIVE AND ACADEMIC APPOINTMENTS

Ball State University

Administrative Appointment, Miller College of Business:

2020—present Assistant Dean of Undergraduate Programs

Academic Appointments, ISOM Department:

2018—present Professor

2004—2018 Associate Professor

1998—2003 Assistant Professor

PUBLICATIONS

REFEREED ARTICLES

Haoqiang Jiang and **Catherine Chen** (2021). Data Science Skills and Graduate Certificates: A Quantitative Text Analysis. *Journal of Computer Information Systems*, 1-17.

Catherine Chen and Haoqiang Jiang (2020). Graduate Certificates in Data Science: Miss or Match for Data Scientists' Jobs in Logistics and Operations? *Journal of Supply Chain and Operations Management*, 18(1), 93-118.

Catherine Chen and Haoqiang Jiang (2020). Important Skills for Data Scientists in China: Two Delphi Studies. *Journal of Computer Information Systems*, 60(3), 287-296.

Sheila Smith and **Catherine Chen** (2017). Modified MSLQ: An Analysis of Academic Motivation, Self-Regulation Learning Strategies, and Scholastic Performance in Information Systems Courses. *Issues in Information Systems*, 18(3), 129-140.

Catherine Chen and Sheila Smith (2017). Multiple Iterations of MSLQ Validation: A contemporary assessment. *Issues in Information Systems*, 18(3), 149-160.

Catherine Chen and Sheila Smith (2015). Renewed Motivation Strategies for Computer-Based Learning. *The International Journal of Science, Mathematics, and Technology Learning*, 22 (4), 1-19.

Sheila Smith and **Catherine Chen** (2015). MSLQ: Instrument Validation of Motivation and Learning Strategies for Acquiring Computer Software Application Skills. *Issues in Information Systems*, 16(3), 108-118.

Catherine Chen (2013). Immersive Learning—A Creative Pedagogy. *International Journal of Pedagogy and Curriculum*, 19(2), 41-55.

- Catherine Chen** and Joel Whitesel (2012). The Validity and Reliability Study of a Revised Motivated Strategy for Learning Questionnaire (MSLQ) for Assessing Computer Software Learning Strategies. *International Journal of E-Adoption*, 4 (2), 28-51.
- Catherine Chen** (2010), Teaching problem-solving and database skills that transfer, *Journal of Business Research*, 63(2), 175-181.
- Catherine Chen** (2007). Introduction to Database Management: Teaching from a Cognitive Load Theory Perspective, *Journal of Applied Research for Business Instruction*, 5 (4), 6 pages.
- Sushil Sharma, **Catherine Chen**, and Srinivasan Sundaram (2006). Implementation problems with ERP systems in virtual enterprises (VE)/virtual organizations, *International Journal of Management & Enterprise Development*, 3 (5), 491-509.
- Catherine Chen** and Charles Ray (2004). The Systematic Approach in Teaching Database Applications: Is There Transfer When Solving Realistic Business Problems? *Information Technology, Learning, and Performance Journal*, 22(1), 9-21.
- Catherine Chen** (2003). A Constructivist Approach to Teaching: Implications in Teaching Computer Networking. *Information Technology, Learning, and Performance Journal*, 21(2), 17-27.
- Catherine Chen** and Marilyn Chalupa (2003). The Role of Motivation and Use of Learning Strategies in Computer Courses: Early and Late in the Semester. *The Delta Pi Epsilon Journal*, 45(2), 98-117.
- Catherine Chen** (2002). Self-regulated Learning Strategies and Achievement in an Introduction to Information System Course. *Information Technology, Learning, and Performance Journal*, 20(1), 11-23.
- Marilyn Chalupa, **Catherine Chen**, and Thomas Charles (2001). An Analysis of College Students' Motivation and Learning Strategies in Computer Courses: A Cognitive View. *The Delta Pi Epsilon Journal*, 43(4), 185-199.
- Catherine Chen** (2001). An Investigation of Students' Thought Processes in Solving Business Problems with a Database Application. *Information Technology, Learning, and Performance Journal*, 19(1), 5-19.
- Catherine Chen** (2001). A Software Tool to Generate Realistic Business Data for Teaching. DPE Best Practice, 7-12.
- Catherine Chen** (2000). Using Realistic Business Data in Teaching Business Problem Solving. *Information Technology, Learning, and Performance Journal*, 18(2), 41-50.
- Marilyn Chalupa, **Catherine Chen**, and Carolee Sormunen-Jones (2000). Reliability and Validity of the Group Member Rating Form. *The Delta Pi Epsilon Journal*, 42(2), 235-245.
- Catherine Chen** (1999). A Protocol Analysis Model for Investigating Computer Supported Problem-Solving Activities. *Information Technology, Learning, and Performance Journal*, 17(2), 35-41.

REFEREED PROCEEDINGS

Catherine Chen and Haoqiang Jiang (2017). Important Skills A Successful Data Scientist Needs in China. *Proceedings of the International Association for Computer Information Systems*, 53-54.

Catherine Chen and Joel Whitesel (2008). A Revised Motivated Strategy for Learning Questionnaire (MSLQ) for Assessing Computer Software Learning Strategies. *Proceeding of the SIG-OSRA, 2008 ICIS Conference*.

Sushil K. Sharma, **Catherine Chen**, MilMini Wickramasinghe, and Santosh Misra (2003). Measuring Socioeconomic Effects of E-Commerce—A Study. *Proceeding of the Sixth International Conference on Electronic Commerce Research*, 470-474.

Catherine Chen, Marilyn Chalupa, and Thomas Charles (2000). Gender Differences in Prior Curricula and Computer Work Experience. *Proceeding of the 19th Annual Research Conference, Organizational Systems Research Association*, 21-37.

Catherine Chen and Peng Wong (1999). Generating Realistic Business Data Instantly: A Database Files Generator. *Edited Book of Readings of the 1999 Delta Pi epsilon Annual Research Conference*, 165-170.

Catherine Chen and Charles Ray (1999). Teaching Business Problem Solving with Database Management Application. *Edited Book of Readings of the 1999 Delta Pi Epsilon Annual Research Conference*, 173-175.

OTHER REFEREED PUBLICATIONS**Conference Abstract in Scholarly Meetings**

Catherine Chen (2014). Taking Experiential Learning to the Next Level: Participating in Project and Case Competition. The 54th IACIS 2014 International Conference, Las Vegas, NV. October 2-4, 2014.

Catherine Chen (2014). Multiple Virtual Application Delivery Solutions for Online Teaching. The 21st International Conference on Learning. New York City, July 14-17, 2014.

Sheila Smith and **Catherine Chen** (2014). Renewed Motivation Strategies for Computer-based Learning. The 21st International Conference on Learning, New York City, July 14-17, 2014.

Catherine Chen (2012). Immersive Learning—A Creative Pedagogy. The 19th International Conference on Learning, London, United Kingdom. August 14-16, 2012.

Chapters in Scholarly Books

Catherine Chen (2016). Effective Learning Strategies for the 21st Century: Implications for E-Learning, In M. Anderson & C. Gavan (Eds.) *Developing Effective Educational Experiences through Learning Analytics*. IGI Global, pp. 147-173.

Sushil Sharma and **Catherine Chen** (2004). Offshore IT Outsourcing—Issues, Risks and Challenges. *IT and Offshore Outsourcing Strategies*, Palgrave MacMillan, UK.

OTHER SCHOLARLY ACTIVITIES (ABBREVIATED)

REFERRED PRESENTATIONS

- Sheila Smith and **Catherine Chen**. Modified MSLQ: An Analysis Of Academic Motivation, Self-Regulated Learning Strategies, And Scholastic Performance In Information Systems Courses. The 57th IACIS International Conference, Philadelphia, PA, October 4, 2017.
- Catherine Chen** and Sheila Smith. Multiple Iterations of MSLQ Validation: A Contemporary Assessment. The 57th IACIS International Conference, Philadelphia, PA, October 4, 2017.
- Catherine Chen**. Important Skills a Successful Data Scientist Needs in China, The 56th IACIS International Conference. Nashville, TN, October 8, 2016.
- Sheila Smith and **Catherine Chen**. MSLQ: Instrument Validation of Motivation and Learning Strategies for Acquiring Computer Software Application Skills. The 55th IACIS International Conference, Nashville, TN, October 9, 2015.
- Catherine Chen**. Taking Experiential Learning to the Next Level: Participating in Project and Case Competition. The 54th IACIS 2014 International Conference, Las Vegas, NV. October 2-4, 2014.
- Catherine Chen**. Multiple Virtual Application Delivery Solutions for Online Teaching. The 21st International Conference on Learning, New York City, July 15, 2014.
- Sheila Smith and **Catherine Chen**. Renewed Motivation Strategies for Computer-based Learning. The 21st International Conference on Learning, New York City, July 15, 2014.
- Catherine Chen**. Immersive Learning—A Creative Pedagogy. The 19th International Conference on Learning, London, United Kingdom. August 14-16, 2012.
- Catherine Chen**. Information Sharing or Knowledge Sharing? The Potential Impact of Enterprise 2.0, 2008 ICIS Conference, SIG-OSRA, Paris, France. December 13, 2008.
- Catherine Chen** and Joel Whitesel. A Revised Motivated Strategy for Learning Questionnaire (MSLQ) for Assessing Computer Software Learning Strategies. 2008 ICIS Conference, SIG-OSRA Paris, France. December 13, 2008.
- Catherine Chen** and Joel Whitesel. The impact of cognitive load theory in learning complex skills. The 26th Annual Research Conference, Organizational Systems Research Association, San Diego, CA. March 16, 2007.
- Catherine Chen**. Computer Network Management: Best Practices. The 25th Annual Research Conference, Organizational Systems Research Association, Oklahoma City, OK. March 2-3, 2006.
- Catherine Chen**. A Comparison of Database Management Teaching Strategies. The 24th Annual Research Conference, Organizational Systems Research Association, Dallas, TX. March 3, 2005.

EDITORIAL ACTIVITIES

- Editorial Review Board, Journal of Computer Information Systems, International Association for Computer Information Systems (2021 - present)

Ad-Hoc Reviewer, Reviewer for the IACIS annual conference proposals, International Association for Computer Information Systems, Editorial Activities (2017 - 2019)

AMCIS 2015 Conference, Reviewing conference papers, Professional (April 2015)

Associate Editor, The International Journal of Pedagogy and Curriculum, Vol. 19, Issue 2. (June 2012 - June 2013)

International Board of Associate Editors for the book Cultures of Teacher Education: Comparative international issues of Curriculum, Pedagogy and Attainment (2012).

Ad Hoc Review Boards: International Journal of Learning (2012), Information Systems Management Journal (2010 & 2012), Education Research Journal (2011), 16th Americas Conference on Information Systems (2010), Americas' Conference on Information Systems (AMCIS, 2010), and European Conference on Information Systems (2009).

Editorial Review Board, The Information Technology, Learning, and Performance Journal (2002 - 2012).

Editorial Review Board, Business Education Digest (2004 - 2007).

Editorial Review Board, The Delta Pi Epsilon Journal (2001 - 2007).

TEACHING

Department of Information Systems and Operations Management

- MBA 613—Systems and Data Management: Analysis and Design
- MBA 621—Information Systems
- ISOM 617—Distributed Information Systems for Business
- ISOM 417—Network Management
- CIS 413—Database Management Systems
- CIS 317—Computer Networks for Business
- ISOM 313—Database and Information Resource Management
- ISOM 311—Information Systems Concepts and Techniques
- ISOM 228—Advanced Microcomputer Applications for Business
- ISOM 226—Business Systems Application Development
- ISOM 135—Business Information Systems
- BIT 365—Business Information Technology Training and Development
- BIT 335—Introduction to Networking Concepts
- BIT 226—Advanced Microcomputer Applications for Business
- BIT 225—Microcomputer Applications for Business
- BIT 210—Business Information Systems

GRANTS AND AWARDS

GRANT

Summer assessment grant (2014, 2015, 2017, 2019). "Analyses of Integration Component of C-KITE," \$1,000.00 for each summer grant.

Provost's Immersive Learning Initiative (2011). "Cloud Computing for Nonprofit Organizations," \$6,160.00.

Miller College of Business Summer Research Grant (2006). "Best Practices in Computer Network Management," \$4,489.

Faculty Development Fund (2004). Information Technology, Ball State University, \$8125.

ISOM Computer Networking/Security Lab (2004). Information Technology, Ball State University, \$24,000.

George A. Ball Distinguished Research Fellowship in Business Administration (2001). "An Investigation of Effective Approaches in Teaching Computers as a Problem-Solving Tool," \$5,000.

AWARDS

Outstanding Teaching Award, Miller College of Business, Fall 2013.

2011 - 2012 Outstanding Immersive Learning Project Award, 2nd place, Miller College of Business, November 2012.

The Delta Pi Epsilon Independent Research Award, 2003.

The Most Accessible Teacher Award, Ball State University, 2001.

The Best Paper Award, "Gender Differences in Prior Curricula and Software Work Experience." The 19th Annual Research Conference, Organizational Systems Research Association, Toronto, Canada, February 24 - 26, 2000.

The Teaching Application Award, "Teaching Business Problem Solving with Database Management Application." The 1999 Delta Pi Epsilon Research Conference, St. Louis, November 18 - 20, 1999.

SERVICES (ABBREVIATED)

CONFERENCE CHAIR

The Annual IS Project and Case Competition hosted by ISOM. This competition event brings students from universities in the mid-west area for a two-day competition. Responsible for all aspects of the conference (2013 - 2015).

MENTORING PROGRAM

Mentor, Ph.D. Pathways Program, Faculty Mentor (August 2017 - Present).

Mentor, BSU Faculty Mentorship Program (FMP) for Ball State University with special needs (Fall 2006 - present)

HONORS THESES ADVISOR

"Artificial Intelligence and Its Implications on Commerce and Logistical Transportation" (Fall 2017 - Spring 2018)

"Effects of IoT on Business Management" (Fall 2017 - 2018)

"The Impact of Windows 10 on the Computer Industry" (Fall 2015 - Spring 2016)

"3D Printing: An Analysis of a Growing Technology" (Fall 2013 - Spring 2014)

"Alpha Kappa Psi Record Keeping System" (Fall 2013 - Spring 2014)

"Cloud Computing and IT Staffing" (Fall 2011 - Spring 2012)

“Leveraging Existing Technology at Ball State University” (Fall 2011 - Spring 2012)

DOCTORAL DISSERTATION COMMITTEES

Music (Fall 2009 - April, 2012)

Teacher Education (Fall 2009 - June 2010)

STUDENT ADVISING

CIS Faculty Advisor (2008 - Spring 2017)

CIS Connections program chair (2008 - Spring 2017)

COMMITTEES

Ball State University

Position Evaluation Review Committee, Committee Member. (February 2017 - present)

Member, Academic Leadership Group (2020 - present)

Member, University Undergraduate Curriculum Committee (2020 - present)

Member, Classroom Accountability (Fall 2020)

Member, University Senate (2019 - 2020)

Member, Faculty Council (2019 - 2020)

Member, Admissions and Credits Committee (2019 - 2020)

Member, University Traffic Appeals Committee (2019 - 2020)

WB Bridge, Committee Member (2017 - 2018)

President’s Travel Fund Committee (2013 - 2014)

Academic Rigor Task Force (2012 - 2013)

Miller College of Business

Director, AOL (Fall 2020 - present)

Chair, Integration AOL Committee (2014 - Spring 2020)

Ex Officio, Undergraduate Curriculum Committee, College (Fall 2020 - present)

Secretary, Undergraduate Curriculum Committee, College (Fall 2018 - Spring 2020)

Member, Teaching Assessment Committee (Fall 2018)

Member, MCOB Immersive Learning Awards Committee (2013 - 2014)

Member, Integration AOL Committee (2010 - 2013)

Member, Knowledge AOL Committee, MCOB (2010 - 2013)

Chair, Communication Subcommittee and Freshman/Sophomore Experience Subcommittee
(Fall 2008 - Spring 2011)

Member, Undergraduate Curriculum Committee (Fall 2001 - 2004, Fall 2008 - 2011)

Chair, Curricula Technology Integration Committee (2005 - 2009)

Director of Technology Integration (May 2005 - 2009)

Chair, Curriculum Integration Assessment Subcommittee (2004 - 2009)

Curriculum Pilot Group (Summer 2004)

ISOM Department

Chair, CIS AOL Committee (2010 - 2020)

Chair, Department P&T Committee (2019 - 2020)

Chair, Business Analytics Program Advisory Board (Fall 2019)

Chair, Assistant Professor of Business Analytics Search Committee (Fall 2019 - Spring 2020)

Member, Assistant Professor of Computer Information Systems Search Committee (Fall 2019 - Spring 2020)

Member, Assistant/Associate Professor of LSCM Search Committee (Fall 2019 - Spring 2020)

Member, Assistant Professor of ISOM Search Committee (Fall 2019 - Spring 2020)

Member, Assistant Professor of Computer Information Systems Search Committee (Fall 2019 - Spring 2020)

Member, Promotion and Tenure Committee (Fall 2008 - Spring 2019)

Member, CIS Advisory Board (April 2004 - Fall 2019)

Chair, Computer Information Systems Contract Faculty Search Committee. (Fall 2018 - Spring 2019)

Member, Assistant Lecturer of Computer Technology Search Committee. (Fall 2018 - Spring 2019)

Member, Assistant Professor of Computer Information Systems Search Committee. (Fall 2018 - Spring 2019)

Department Chair Search Committee (Fall 2017 - Spring 2018)

Member, Business Analytics Faculty Search Committee (2014 - 2015)

Member, Department Coordinator Search Committee (2014)

Member, IS Faculty Search Committee (Fall 2008 - Spring 2009)

OTHER PROFESSIONAL ACTIVITIES AND DEVELOPMENT (ABBREVIATED)***PROFESSIONAL AND ACADEMIC ORGANIZATION ACTIVITIES***

Treasurer, Beta Gamma Sigma (2014 - present)

Member, Beta Gamma Sigma (2007 - present)

Session Chair (October 2016)

Member, Association for Information Systems (2003 - 2010)

Member, AIS SIG-OSRA (1998 - 2010)

VP—Research, Organizational Systems Research Association (June 2005 - June 2007)

DPE Publication Committee (November 2003 - 2007)

Session Chair, Innovative Instructional Strategies Session, The 2004 Delta Pi Epsilon Research Conference in Washington, DC (November 18 - 20, 2004)

Treasurer, Organizational Systems Research Association (June 2001 - May 2004)

PROFESSIONAL DEVELOPMENT AND PARTICIPATION

- AACSB Assure of Learning I (virtual), March 24 - 26, 2021
- AACSB Business Accreditation Seminar (virtual), January 11 - 14, 2021
- Remote Teaching Bootcamp, Online training, May 4 - 8, 2020
- Applying the QM Rubric (APPQMR) online training module. July, 2013
- MCOB Online Course Development Workshop, Part I & Part II. October 2012
- Blackboard—Tracking Students Workshop. October 2012
- Blackboard—IM Workshop, Ball State University. September 2012
- The 2011 DPE National Conference, Delta Pi Epsilon, Indianapolis, IN. November 17, 2011
- AACSB Applied Assessment Seminar, Tampa, FL. June 16 - 17, 2010
- AACSB Assurance of Learning, Tampa, FL. May 3 - 4, 2010
- AACSB Undergraduate Programs Conference, Baltimore, MD. November 15 - 17, 2007
- Participant, The 2007 SAP Curriculum Congress, Vancouver, Canada. March 3 - 4, 2007
- Completion of the HEC Montreal ERP Simulation Game, Vancouver, Canada. March 1 - 2, 2007
- Completion of Business Process Integration I, SAP University Alliances 2005 Summer Workshop, St. Francis Xavier University, Antigonish, Nova Scotia, Canada. June 6 - 10, 2005
- Completion of Business Process Integration II, SAP University Alliances 2005 Summer Workshop, California State University Chico, Chico, CA. July 8 - 22, 2005
- Completion of the Microsoft Windows Server 2003 Security training, Global Knowledge, Schaumburg, IL. August 2 - 6, 2004
- Completion of Wireless Security training, Global Knowledge, virtual classroom e-learning. June 15 - 18, 2004
- Completion of the Microsoft Windows Server 2003 training, Global Knowledge, Schaumburg, IL. May 3 - 7, 2004

OTHER

- Panelist, Women in Business Panel, Company Relations for Women in Business (a BSU student organization), September 2019
- Panelist, Sabbatical Panel, Ball State University, April 2019
- Hosted ASUG Indiana Chapter June meeting, Ball State University Alumni Center (2006 - 2008)

CONSULTING

- Mutual Federal Savings Bank (June - July, 2006)
- NetHealth Systems, Muncie (2004 - 2006): Assisted in interface and architectural design of network management tools.