Faiz Currim

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EDUCATION

2004   **Ph.D.**, Management Information Systems
University of Arizona, Tucson AZ

1997   **PGDM** (MIS, Finance)
Indian Institute of Management Calcutta, *India*

1995   **B.Com**
Sydenham College, Mumbai University, *India*

EMPLOYMENT

2021-now   **Professor of Practice**, Department of Management Information Systems, University of Arizona

2011-2021   **Senior Lecturer**, Department of Management Information Systems, University of Arizona

2015-now   **Assistant Director**, INSITE: Center for Business Intelligence and Analytics.

2004-2010   **Assistant Professor**, Management Sciences Department, University of Iowa

RECENT COURSES

Department of Management Information Systems, University of Arizona

- MIS 531 Enterprise Data Management: in-person each Fall 2012-2025;
online each semester since Spring 2013.

- MIS 331 Database Management Systems: Fall 2024, 2025

- MIS 587 Business Intelligence: Fall 2023-Spring 2024.

- BNAD 532 Technical Foundations of Business Analytics: Summer 2024, 2025

PAST COURSES

- MIS 111L Computers & Internetworked Society, Excel Lab: Fall 2012 - Fall 2015

- MIS 304 Using & Managing Information Systems: in-person each Spring 2016-2023;
online in Fall 2016 and each Spring 2018-2024.

- MIS 307 Business Data Communications: Spring 2011 – Spring 2012, Spring 2014, Spring 2015

- MIS 331 Database Management Systems: Spring 2011 – Spring 2013

- MIS 502 Technical Foundations of Business Analytics 2021-2023

RECENT SERVICE ACTIVITIES

MIS Department Service
- MIS Department, Graduate Program Committee, Fall 2019-ongoing.

- MIS Department Data Analytics Challenge development (designing and maintaining the case and datasets), Spring 2019-ongoing.
- MIS Department, Assessment Coordinator, Fall 2012-ongoing.
- MISGA Faculty coordinator, Fall 2023- Spring 2025.
- MIS orientation SQL bootcamp training for students, 2021-ongoing.
- Classroom observation for MIS304 (David Weber)
- MIS Department Recruiting committee for Adjunct Faculty, 2023-24.
- Data Management Presentation to Zipperman Scholars, Spring 2023.
- MIS Department APR committee, 2022-23.
- Independent Study supervision, 2023-24.

Eller College and University of Arizona Service
- Mentor: Faculty Development Communities of Promotion, 2024-25
- College of Humanities Career Track Promotion committee 2024
- McGuire Career Track review, 2024.
- Eller College Career Track Review Committee, 2022-2023.

TRAINING AND PROFESSIONAL DEVELOPMENT

- Teaching Async Online Courses (Fall 2024)
- Faculty Learning Community on AI Savvy Educator (Summer 2024)
- How do we continue to improve as teachers? (Spring 2024)
- Faculty Learning Community on Generative AI (Fall 2023)
- Implementing a Data Warehouse with SQL Server 2022 [LinkedIn Learning/Arizona] (Fall 2023)
- Learning to Teach Online [LinkedIn Learning/Arizona] (Fall 2023)
- Assignment Builder and why should I use it? (February 2023)
- Genre-based Assignment Design (November 2022)
- Peer Review Workshop (October 2022)
- Teaching Large Online Courses (August 2021)
- Rethinking traditional feedback delivery for online assignments (May 2021)
- Getting Started with Flipped Learning (February 2021)
- CSC 483: Text Retrieval and Web Search (Fall 2020)
- Building Communities in Online Courses (August 2020)
- INFO 523: Data Mining and Discovery (Spring 2020)
- UA Open Classroom Week (Mar 2020)
- Creating Accessible Course Sites (Aug 2019)
- Teaching: Using Clickers for Team-Based Learning or Gamification (UA-1609-1; Apr 2019)
- Eller Faculty Excellence in Online Teaching Certificate (January 2019)
- Teaching to Maximize Learning (Sep 2014)
- Faculty Learning Community on Program Assessment, 2011 - 2012.

Refereed Journal Articles

- "Quantifying the substantive influence of public comment on United States federal environmental decisions under NEPA" (A. Stava, W. Thogmartin, R. Merideth, S. Bethard, F. Currim, J. Derbridge, K. Emerson, E. Laparra, A. Lien, E. McGovern, J. Pidot, M. Miller, K. Romero-Cardenas, B. Smith, C. Winnebald, L. López-Hoffman. *Environmental Research Letters.* Volume 20, Issue 7, June 2025. [Impact Factor 5.6]

- "A Reduced Modeling Approach for Making Predictions with Incomplete Data Having Blockwise Missing Patterns" (K. Srinivasan, F. Currim, S. Ram). *INFORMS Journal of Data Science.* Volume 4, Issue 1, Jan 2025. [newer INFORMS journal, no impact factor]

- "Addressing structural hurdles for metadata extraction from environmental impact statements" (E. Laparra, A. Binford-Walsh, K. Emerson, M. Miller, L Lopez-Hoffman, F. Currim & S. Bethard). *Journal of the Association for Information Science and Technology.* Volume 74, Issue 9, September 2023. [impact factor 3.5]

- "A Human-in-the-loop Segmented Mixed-effects Modeling Method For Analyzing Wearables Data" (K. Srinivasan, F. Currim, S. Ram). *ACM Transactions on Management Information Systems* [impact factor 2.54]. Volume 14, Issue 2, June 2023.

- "Discovery of associative patterns between workplace sound level and physiological wellbeing using wearable devices and empirical Bayes modeling", (K. Srinivasan, F. Currim, C. Lindberg, J. Razjouyan, B. Gilligan, H. Lee, K. Canada, N. Goebel, M. Mehl, M. Lunden, J. Heerwagen, B. Najafi, E. Sternberg, K. Kampschroer, Sudha Ram), *NPJ Digital Medicine*, Volume 6, Issue 5, Jan 2023. [Impact Factor 15.36]

- "Data Completeness and Complex Semantics in Conceptual Modeling: the need for a Disaggregation Construct" (Y. Li, F. Currim, S. Ram). *Journal of Data and Information Quality.* Volume 14, Issue 4. December 2022. [impact factor 4.1]

- "Toward NEPA Performance: A framework for assessing EIAs" (K. Emerson, E. Baldwin, T. Scott, J. Pidot, A. Lien, F. Currim, S. Bethard, S. Ram, M. Miller, L. Lopez-Hoffman). *Environment Impact Assessment Review.* Volume 97, November 2022. [impact factor 6.12]

- "Deep Learning of Spatiotemporal Patterns for Urban Mobility Prediction using Big Data" (Y. Wang, F. Currim, S. Ram). *Information Systems Research.* Volume 33, Issue 2, June 2022. [impact factor 7.83]

- "Evaluating Distributed Computing Infrastructures: An Empirical Study Comparing Hadoop Deployments on Cloud and Local Systems". (D. Bhattacharya, F. Currim, S. Ram). *IEEE Transactions on Cloud Computing.* Volume 9, Issue 3, July 2021. [impact factor 5.97]

- "Wellbuilt for Wellbeing: Controlling Relative Humidity in the Workplace Matters for Our Health" (J. Razjouyan, H. Lee, B. Gilligan, C. Lindberg, H. Nguyen, K. Canada, A. Burton, A. Sharafkhaneh, K. Srinivasan, F. Currim, S. Ram, M. Mehl, N. Goebel, M. Lunden, S. Bhangar, J. Heerwagen, K. Kampschroer, E. Sternberg, B. Najafi). Indoor Air. *Indoor Air.* Volume 30, Issue 1, Jan 2020. [impact factor 4.71]

- "Predicting High Cost Patients at Point of Admission using Network Science", (K. Srinivasan, F. Currim, S. Ram). *IEEE Journal of Biomedical and Health Informatics*, Volume 22, Issue 6, November 2018. [impact factor 3.85]

- "Effects of office workstation type on physical activity and stress", (C. Lindberg, K. Srinivasan, B. Gilligan, J. Razjouyan, H. Lee, B. Najafi, K. Canada, M. Mehl, F. Currim, S. Ram, M. Lunden, J. Heerwagen, K. Kampschroer, E. Sternberg). *Occupational and Environmental Medicine*, Vol 75, Issue 10, October 2018. [impact factor 3.97]

- "Using a knowledge learning framework to predict errors" (S. Currim, S. Ram, A. Durcikova, F. Currim). *Information Systems*, Vol 40, March 2014. [Impact factor 3.4]

- "A Maintenance Centric Approach to the View Selection Problem" (R. Hylock, F. Currim). *Information Systems*, Vol 38, Issue 7, October 2013. [Impact factor 3.4]

- "Modeling spatial and temporal set-based constraints during conceptual database design" (F. Currim, S. Ram). *Information Systems Research*, Vol 23, Issue 1, March 2012. [Impact factor 5.1]

- "Adding Temporal Constraints to XML Schema" (F. Currim, S. Currim, C. Dyreson, R. Snodgrass, S. Thomas, R. Zhang). *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, Vol 24, Issue 8, August 2012. [Impact factor 10.4]

- "Safe & Efficient Privacy-policy Enforcement on Hadoop" (I. Jo, E. Jung, F. Currim, H. Y. Yeom). *Information Journal*, Vol 15, Issue 4, April 2012.

- "Competitive Intelligence Task Analysis and Retrieval: An End-User Approach" (L. Zhang, S. Currim, F. Currim). *Review of Business Information Systems, Vol 15, Issue 2, 2011*.

- "A data modeling process for decomposing healthcare patient data sets" (D-F Lu, W. N. Street, F. Currim, R. Hylock, C. Delaney). *Online Journal of Nursing Informatics, Vol 13, Issue 1, February 2009*.

- "Conceptually modeling Windows and Bounds for space and time in database constraints" (F. Currim, S. Ram). *Communications of the ACM, November 2008*. [Impact factor 12.2]

- "Validating quicksand: Schema versioning in τXSchema" (R. T. Snodgrass, C. Dyreson, F. Currim, S. Currim, S. Joshi). *Data and Knowledge Engineering*, Vol 65, Issue 2, May 2008. [Impact factor 2.6]

- "Weaving Temporal and Reliability aspects into a schema tapestry" (C. Dyreson, R. T. Snodgrass, F. Currim, S. Currim, S. Joshi). *Data and Knowledge Engineering, Vol 63, Issue 3, December 2007*. [Impact factor 2.6]

- "The Latin American ICBG: The first five years" (B. Timmermann, G. Wachter, S. Valcic, B. Hutchinson, C. Casler, J. Henzel, S. Ram, F. Currim, R. Manak, S. Franzblau, W. Maiese, D. Galinis, E. Suarez, R. Fortunato, E. Saavedra, R. Bye, R. Mata, G. Montenegro). *Journal of Pharmaceutical Biology, Vol. 37 (Suppl.), 1999, pp. 35-54*.

Note: impact factors were listed from the year of publication except for publications prior to 2025 which were looked up in 2025

Refereed Conference & Workshop Proceedings

- "What Makes an Online Suggestion A Good One for Online Health Communities" (Z. Yang, S. Ram, F. Currim), *25th Americas Conference on Information Systems (AMCIS 2020)*, 2020.

- "Suggestion Mining for Online Health Forums" (Z. Yang, S. Ram, F. Currim), *29th Workshop on Information Technology and Systems (WITS)*, 2019.

- "Modeling Bike Sharing Systems and Predicting Station Demand Using Heterogeneous Data Sources" (F. Dong, F. Currim, S. Ram), *29th Workshop on Information Technology and Systems (WITS)*, 2019.

- "Drug-Drug Interaction Mining and Interaction Terms Extraction using Deep Learning: A Word-level Attention Bi-Directional LSTM" (Z. Yang, S. Ram, F. Currim), *28th Workshop on Information Technology and Systems (WITS)*, 2018.

- "Future Impact Prediction of Technology based on Patent Ranking in Heterogeneous Network" (Z. Yang, S. Ram, F. Currim), *Conference on Information Systems and Technology (CIST)*, 2018.

- "Using Digital Health Wearable Devices to Understand the Relationship Between Sound levels and Wellbeing: A Segmented Mixed-effects Regression Approach" (K. Srinivasan, F. Currim, S. Ram), *27th Workshop on Information Technology and Systems (WITS)*, 2017.

- "A Regularization Approach for Identifying Cumulative Lagged Effects in Smart Health Applications", (K. Srinivasan, F. Currim, S. Ram, C. Lindberg, E. Sternberg, B. Najafi, J. Razjouyan, H. Lee, M. Mehl, D. Herzl, R. Herzl, M. Lunden, N. Goebel, S. Andrews, B. Gilligan, J. Heerwagen, K. Kamschroer, K. Canada), *7th International Conference on Digital Health, 2017*.

- "Deep Learning for Bus Passenger Demand Prediction Using Big Data" (Y. Wang, F. Currim, S. Ram), *26th Workshop on Information Technology and Systems (WITS)*, 2016.

- "SMARTBIKE: Policy making and decision support for Bike Share systems" (S. Ram, F. Dong, F. Currim, Y. Wang, E. Dantas, L. A. Sabóia), *IEEE 2nd International Smart Cities Conference*, 2016.

- "A Big Data Approach for Smart Transportation Management on Bus Network" (Y. Wang, S. Ram, F. Currim, E. Dantas, L. A. Sabóia), *IEEE 2nd International Smart Cities Conference*, 2016. [award: Best Paper]

- "Feature importance and predictive modeling for multi-source healthcare data with missing values" (K. Srinivasan, F. Currim, S. Ram, C. Lindberg, E. Sternberg, P. Skeath, B. Najafi, J. Razjouyan, H. Lee, C. Foe-Parker, N. Goebel, R. Herzl, M. Mehl, B. Gilligan, J. Heerwagen, K. Kampschroer, K. Canada), *6th International Conference on Digital Health (in conjunction with WWW 2016), 2016*. [award: Best Student-led Paper]

- "SMARTBUS: A Web Application for Smart Urban Mobility and Transportation" (S. Ram, Y. Wang, F. Currim, F. Dong, E. Dantas, L. A. Sabóia), *AW4city 2nd International Smart City Workshop, (in conjunction with WWW 2016),* 2016.

- "Using Big Data for Predicting Freshmen Retention" (S. Ram, Y. Wang, F. Currim, S. Currim). *International Conference on Information Systems*, 2015.

- "Class Imbalance Learning and Novel Feature Extraction Methods for Predicting Freshman Retention" (Y. Wang, F. Currim, S. Currim, S. Ram, *25th Workshop on Information Technology and Systems*, 2015.

- "Safe & Efficient Privacy-policy Enforcement on Hadoop" (I. Jo, E. Jung, F. Currim, H. Y. Yeom), *International Conference on Computer Convergence Technology*, 2011.

- "When Entities are Types: Effectively Modeling Type-Instantiation Relationships" (F. Currim, S. Ram). *Third International Workshop on Active Conceptual Modeling of Learning*, 2010.

- "Exploratory Competitive Intelligence through Task Complexity Analysis" (S. Currim, L. Zhang, F. Currim). *Fifth annual conference of Midwest Association for Information Systems (MWAIS)*, 2010.

- "Privacy policy enforcement for health information data access" (F. Currim, E. Jung, X. Xiao and I. Jo). *WiMD 2009: ACM International Workshop on Medical-grade Wireless Networks*. May 2009.

- "Quips, MD: Query Information Privacy and Security, for Medical Data" (X. Xiao, E. Jung, F. Currim). *Proceedings of the 18th Workshop on Information Technology and Systems*, 2008.

- "NursingCareWare: Warehousing for nursing care research and knowledge discovery" (R. Hylock, W. N. Street, D-F Lu, F. Currim), *Proceedings of the 3rd INFORMS Workshop on Data Mining and Health Informatics*, 2008.

- "RFID Tagging at the aggregate level: implications for using groupings" (F. Currim, S. Ram). *Proceedings of the Seventh Symposium on Research in Systems Analysis and Design, 2008*.

- "Database systems: Understanding the effect of organizational knowledge creation on data quality" (S. Currim, F. Currim). *Proceedings of the Seventh Symposium on Research in Systems Analysis and Design, 2008*.

- "RFID Data: A case of and for types and instances" (F. Currim, S. Ram). *Proceedings of the 17th Workshop on Information Technology and Systems*, 2007. *[Acceptance rate ~ 32%; Acceptance rate for Conceptual modeling track not known but likely under 30% based on past data]*

- "Understanding the concept of "Completeness" in frameworks for modeling cardinality constraints" (F. Currim, S. Ram). *Proceedings of the 16th Workshop on Information Technology and Systems*, 2006. *[Acceptance rate 82/220 ~ 37%; acceptance rate in Conceptual modeling track: ~ 27%]*

- "Schema-mediated exchange of temporal XML data" (C. Dyreson, R. T. Snodgrass, F. Currim, S. Currim). *Proceedings of the 25th International Conference on Conceptual Modeling*, 2006. *[Acceptance rate 37/158 ~ 23%]*

- "Making the case for new semantic constructs to model RFID data" (F. Currim, S. Ram). *Proceedings of the Fifth Symposium on Research in Systems Analysis and Design, 2006*.

- "Validating quicksand: schema versioning in τXSchema" (C. Dyreson, R. T. Snodgrass, F. Currim, S. Currim, S. Joshi). *Proceedings of the 3rd International Workshop on XML Schema and Data Management*, 2006. *[Acceptance rate 10/15 ~ 66%]*

- "A Tale of Two Schemas: creating a temporal XML schema from a snapshot schema with τXSchema" (F. Currim, S. Currim, R. T. Snodgrass, C. Dyreson). In *Proceedings of the 9th International Conference on Extending Database Technology*, 2004, Heraklion-Crete, Greece. pp. 348-364. *[Acceptance rate 42/294 ~ 14%]*

Book Chapter (Refereed)

- "Survey of cardinality constraints in snapshot and temporal semantic data models", (F. Currim, S. Ram). In S. Wrycza and A. Bajaj (Eds.), *Systems Analysis and Design for Advanced Modeling Methods: Best Practices*. IGI Global, 2009.

PATENT

- Patent US20180144352A1: Predicting Student Retention using Smartcard Transactions, (Sudha Ram, Yun Wang, Sabah Currim, Faiz Currim). 2017.

OTHER ACADEMIC PUBLICATIONS

- "The Role of Non-Tenure Track Faculty in Contemporary IS Departments" (A. Lopes, F. Currim, S. Magal, G. Simpson, M. Thouin). AMCIS 2023 (*panel and invited publication*), 2023.

- "Understanding Semantic Completeness in Rule Frameworks for Modeling Cardinality Constraints" (F. Currim, S. Ram). *EMISA Journal (invited contribution for special issue)*, Vol 13(2), 2018.

- "A literature survey of computational support for global public policy" (F. Currim, W. Foster, R. Reinsch, H. Thoreson, S. Saheil). *Technical Report*. 2013.

- "Modeling Spatial and Temporal Cardinality Constraints", (F. Currim, S. Ram). *Information Systems sub-track INFORMS*, November 2010.

- "The CARD System", (F. Currim, N. Neidig, A. Kampoowale, G. Mhatre). *29th International Conference on Conceptual Modeling, (ER 2010), pp. 433-437.*

- "τXSchema—Support for Data- and Schema-Versioned XML Documents", (F. Currim, S. Currim, C. Dyreson, R. T. Snodgrass, S. W. Thomas, S. Joshi, E. Roeder). Technical Report TR-91, TimeCenter, May 2009.

- "Q-RICE: Query Rewriting and policy Integration for access Control and Enforcement" (E. Jung, F. currim, X. Xiao, N. Burnette, E. Hoffman). *DIMACS workshop on Internet Privacy: Facilitating Seamless Data Movement with Appropriate Controls*. September 2008.

- "A Data modeling process For decomposing healthcare patient data sets" (D-F Lu, W. N. Street, F. Currim, C. Delaney). *International Conference to Celebrate the Centennial of the College of Nursing, Seoul National University*, 2007.

- "CARD: Constraint Automated Representation for Database Systems" (F. Currim, N. Neidig, A. Kampoowale, G. Mhatre, M. Vanderflugt, A. Padiyara). Prototype Session Demonstration, at *17th Workshop on Information Technology and Systems*, 2007.

HONORS AND AWARDS

- *MIS Association, University of Arizona*, Faculty Award, 2018.

- *Delta Sigma Pi, University of Arizona*, Neville Cramer Faculty Scholarship Award, Spring 2017.

- *Alpha Kappa Psi, University of Arizona*, Outstanding Faculty Award, March 2012.

PAST SERVICE ACTIVITIES

University of Arizona

Department and Collegiate Service

- MIS Department, Undergraduate Program Committee, University of Arizona, Fall 2011-Spring 2014. Fall 2016 – Spring 2019.

Ph.D. Committees

- Fan Dong, Department of Management Information Systems, 2021.
- Karthik Srinivasan, Department of Management Information Systems, 2019.
- Yun Wang, Department of Management Information Systems, 2017.

Outside the University

- Prototype and Technology Instructional Technology Chair, *19ᵗʰ Workshop on Information Technology and Systems (WITS)*, 2009.

PROFESSIONAL MEMBERSHIPS

- Association for Information Systems (AIS), Association for Computing Machinery (ACM), INFORMS.