

# FARUK ARSLAN

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## Professional Profile

- A 6-sigma greenbelt with 17 years of industry experience in the U.S.A., Mexico, Turkiye, and Europe with an emphasis on business analytics, information systems development, project management, and process improvement.
- Primary research interests include; business value of information systems (IS), supply chain and IS, information security and privacy, adoption and diffusion of IS, data-informed decision-making, and global diversity of IS
- Teaching interests include business analytics, databases, social analytics, text mining, applied machine learning, system analysis and design, IS project management, global information systems, and business applications development.

## Education

2015 (Dec.) The University of Texas at El Paso,  
College of Business Administration (AACSB-accredited)  
Ph.D., International Business | *Specialization: Information Systems | 4.0/4.0*  
*Dissertation Title: Three Essays on Global I.C.T. Phenomenon: Productivity Paradox, Organizational I.C.T. Use and Privacy in Online Social Networks*  
*Chair(s): Dr. Kallol K. Bagchi and Dr. Godwin Udo*  
*Committee Members: Dr. Somnath Mukhopadhyay, Dr. Peeter Kirs,*  
*Dr. José Humberto Ablanedo Rosas*  
*Awarded for Outstanding Doctoral Dissertation in Spring 2017*

2001 Ball State University | Miller College of Business (AACSB-accredited)  
M.B.A., Operations and Production Management | 3.97/4.0

1998 Istanbul University | School of Business (AACSB-accredited)  
Bachelor of Business Administration | 3.0/4.0

## Academic Experience

- *Associate Professor, Information Systems (August 2024 – present)*
- *Researcher at NMSU CoB Supply Chain & Analytics Center (May 2021 – present)*
- *Assistant Professor, Information Systems (tenure-track) (August 2018 – August 2024)*  
Department of Accounting and Information Systems | College of Business  
New Mexico State University, Las Cruces, NM
- *Director, Cyber Security Institute (November 1, 2017 – July 2018)*  
*Assistant Professor of Computer Information Systems (tenure-track)*  
Computing Sciences Department | College of Science and Engineering  
University of Houston, Clear Lake, Houston, TX (January 2016 – July 2018)
- *Assistant Instructor, College of Business Administration*  
The University of Texas at El Paso, El Paso, TX (August 2012 – December 2015)
- *Graduate Research Assistant, Ball State University, Muncie, IN (August 1999 – July 2001)*

## Scholarly Activities

### Refereed Journal Papers

Shindi, R., Muhyi, N., *Arslan, F.* (2025, in press). NeuroMat - A Brain+Foot Embodied Interface to Support Children with ADHD and Learning Disabilities: An Exploratory Study". *International Journal of Education and Development using ICT, forthcoming.*

Fuqua, D., *Arslan, F.*, Pimentel, V., Fatoki, J., Brewer, B., Witt, P.W., Kennedy, E. (2024, in press). Contracted near-shore service part production predictive modelling using BOM-based feature generalisation and deep statistical learning. *International Journal of Information and Decision Sciences, forthcoming.* DOI: 10.1504/IJIDS.2026.10065172

Farooq, M., Arslan, F., Fuqua, D., & Pimentel, V. (2024). Case Study: The Strategy, Implementation, and Financial Performance of the Bank of North Dakota. *Mountain Plains Journal of Business and Technology*, 25(1), 41. Retrieved from <https://openspaces.unk.edu/mpjbt/vol25/iss1/>

Mora-Monge, C., Fatoki, J., *Arslan, F.*, Rauniar, R. (2023). Exploring drivers of business performance in web-enabled supply chains: The role of web-technology training and supply chain integration. *Journal of Enterprise Information Management*, 36(4), 135-1157. <https://doi.org/10.1108/JEIM-09-2022-0318>

Rosas-Ablanedo, J.H., Cortez, Y.M., *Arslan, F.* (2022). Measuring Efficiency in the Movie Theater Industry: A Bootstrap Data Envelopment Analysis Approach. *Journal of Quality Assurance in Hospitality & Tourism*, DOI: <https://doi.org/10.1080/1528008X.2022.2109236> (published online 18 Aug 2022).

Ezeugwa, B., Talukder, M. F., Amin, M. R., Hossain, S. I., & *Arslan, F.* (2022). Minimum sample size estimation in SEM: Contrasting results for models using composites and factors. *Data Analysis Perspectives Journal*, 3(4), 1-7.

*Arslan, F.*, Bagchi, K. K., Mukhopadhyay, S., & Rosas-Ablanedo, J.H. (2022). A Multi-Country Empirical Study Of ICT-Induced Productivity Variances by Economic Magnitude and Industry. *Information Resources Management Journal*, 35(1), 1-46. DOI: 10.4018/IRMJ.298976.

*Arslan, F.*, Bagchi, K. K., & Udo, G. (2022). What Drives Information Disclosure in Social Networking Sites: An Empirical Research Within the European Context. *International Journal of Information Security and Privacy*, 16(1), 1-26. DOI: 10.4018/IJISP.2022010119.

Dayyala, N., *Arslan, F.*, Walstrom, K., & Bagchi, K. (2020). Co-Diffusion Effects in Software Sourcing Arrangements. *Information Resources Management Journal*, 33(4), 33-52. (Selected for republication at Management Association, I. (Ed.). (2022). Research Anthology on Agile Software, Software Development, and Testing. I.G.I. Global. <http://doi:10.4018/978-1-6684-3702-5> )

*Arslan, F.*, Bagchi, K. K., & Kirs, P. (2019). Factors Implicated with Firm-Level I.C.T. Use in Developing Economies. *Journal of Global Information Technology Management*, 22(3), 179-207. <https://doi.org/10.1080/1097198X.2019.1642022>

*Arslan, F.*, & Dayyala, N. (2017). Cultural and Generational Influences on Information Privacy Concerns within Online Social Networks: An Empirical Evaluation of the Miltgen and Peyrat-Guillard Model. *Journal of Information Privacy and Security*, 13(4), 238-259. <https://doi.org/10.1080/15536548.2017.1412114>

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## Research in Progress

“Pandemic-Driven Shifts In Coffee Production Efficiency: A Study Of Peruvian Producers” (with D. Fuqua, V. Pimentel, J. Jackson, J. Fatoki) {Accepted with minor revision}

“Rare Earth Material Price Prediction: An Hybrid Approach using Long Short Term Memory Recurring Neural Networks and Large Language Models” (with D. Fuqua, V. Pimentel, S. Bona)

“Navigating the Storm in Developing Economies: Understanding the Factors Contributing to Firm Resilience during Covid-19” (with S. Darba and C. Mora-Monge)

“An Interactive Brain Training System For Children With Low Math Achievement And Attention Disorder” (with R. Shindi)

“Organizational Adoption of Artificial Intelligence (AI) Artifacts in the Borderplex Region” (with D. Fuqua, V. Pimentel, A. Cano-Bejar, I. Bourbon-Rodroguez, Q. Zhou)

“Digital Therapeutics for Diabetes: Building a Framework for Real-World Adoption: An Integrated Fit-UTAUT Model for Healthcare Provider Adoption” (with H. Aliedeh, A. Cano-Bejar, C. Mora-Monge)

“Tariff Prediction Artifact” (with D. Fuqua, V. Pimentel, H. Sternberg, Mohammad Al-Tahat, S. Bona)

“Influence of Social Structures at Firm-Level: Managers’ Use of I.C.T.s” (with S. Ryu, K. Bagchi, G. Udo)

## Grants & Proposals

Co-PI for DOE grant proposal entitled: “Evaluating New Materials and Processes for Radioactive Tank Waste Processing: Workforce Development in F-Orbital Chemistry, Nuclear Chemical Engineering, and Supply Chain Management.” {Status: Awarded, Total Amount: \$4.8 million for 3 years}

Co-PI for NSF grant submission entitled: “Contracted Near-Shore Service Part Production Predictive Modeling for EV Using BOM-Based Feature Generalization And Deep Statistical Learning.” NSF Proposal Number: 2328472 {Status: Not awarded, Total Amount: \$499,996}

Center for Supply Chain Entrepreneurship *Faculty Contributor* for Native American Agriculture Fund (NAAF) 2022 Tribal Resilience-by-Design in Agriculture. {Status: Awarded, Total Amount: \$125,000}

Co-PI for U.S.A. Spaceport Benchmark Study (Proposal No:178). Spaceport America. {Status: Awarded, Total Amount: \$50,000}

Co-PI for Better Border for Better America (Proposal No: 239). Sponsor: California State University, San Bernardino. {Status: Not Awarded}

Co-PI for UTC Proposal with Univ. of Wisconsin (Proposal No: 240). Sponsor: University of Wisconsin. {Status: Not Awarded}

Collaborator for A.I. Institute grant (Artificial Intelligence Innovations for Sustainable Agricultural Production - ASAP) {Status: Not Awarded}

LEADS 2025 – COVID-19 Performance Fund Proposal - Revamping Supply Chain Analytics Education to Enhance Student Success and Social Mobility {Status: Not Awarded}.

Co-PI for Educational Pathway to Opportunity and Careers in Homeland Security (EPOCH) (ID: 30802) {Status: Not Awarded}.

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Co-authored the proposal for the National Science Foundation grant: R.E.U. Site: Research Experience for Undergraduates in Data Science. (P.I.: Dr. Hisham Al-Mubaid). N.S.F. Proposal #: 1757669 {Status: Not Awarded}.

### Conference Proceedings (Refereed), Tutorial Papers (Refereed) & Presentations

Dharba, S., Arslan, F., Mora-Monge, C. (2023) Navigating the Storm in Developing Economies: Understanding the Factors Contributing to Firm Resilience during Covid-19. 54<sup>th</sup> Annual Meeting, Decision Sciences Institute, Atlanta, GA, November 18-20, 2023.

Farooq, O., Arslan, F., Pimentel, V., Fuqua, D. (2023) Measuring the Efficiency of U.S. Spaceports: A Bootstrap Data Envelopment Analysis Approach. 54<sup>th</sup> Annual Meeting, Decision Sciences Institute, Atlanta, GA, November 18-20, 2023.

Fatoki, J., Fuqua, D., Pimentel, V., *Arslan, F.*, Brewer, B. (2022) Sequence Prediction Models using BOM Demographic Data in Nearshore Manufacturing. 53<sup>rd</sup> Annual Meeting, Decision Sciences Institute, Houston, TX, November 19-21, 2022.

*Arslan, F.*, Fuqua, D., Pimentel, V. (2022) Aplicaciones analíticas en las cadenas de suministros de la industria alimenticia. Expo Agro Alimentab 2022. September 30, 2022.

*Arslan, F.* (2021) Implementing Analytics in an IS Survey Course. 52<sup>nd</sup> Annual Meeting, Decision Sciences Institute, Virtual, November 20, 2021.

*Arslan, F.*, Mora-Monge, C., and Bagchi, K. (2020) Behavior Recording Concerns and Trusting Beliefs in Organizations for Data Protection. 20th Global Information Technology Management Association (GITMA) World (Virtual) Conference 2020 Paris, France, June 22-24, 2020. {Conference Proceeding & Presentation}

Mora-Monge, C., *Arslan, F.*, Pham, L., and Davis, J. (2019) Web-Enabled Supply Chain Practices in Southeast Asia: A Cross-Country Comparison. 50<sup>th</sup> Annual Meeting, Decision Sciences Institute, New Orleans, November 25, 2019.

*Arslan, F.*, Bagchi, K., and Al-Mubaid, H. (2018) Medical Information: Is It Personally Sensitive Information or Not? A Multi-level Model to Explore the Role of National Culture and Governance. 18<sup>th</sup> Global Information Technology Management Association (GITMA) World Conference 2018. Mexico City, Mexico, July 8-10, 2018. {Conference Proceeding & Presentation}

*Arslan, F.* and Vlas R. (2017, 10). Contextually Sensitive Privacy-Aware E-commerce Systems. INFORMS Annual Meeting, October 22-25, 2017, Houston, TX.

*Arslan, F.* and Bagchi, K. (2016, 4). Understanding the Information Privacy and Disclosure in Social Networking Sites within European Context. Partial Least Square Applications Symposium. 20th Annual Western Hemispheric Trade Conference, April 13-15, 2016, Laredo, TX

*Arslan, F.*, Bagchi, K., and Ryu, S. (2015). A Preliminary Evaluation of the Determinants of Certification Success in MOOCs: A Multi-level Study. Proceedings of the Twenty-first Americas Conference on Information Systems, Puerto Rico, August 13-15, 2015. {Conference Proceeding & Presentation}

Ablanedo-Rosas, J. H., *Arslan, F.* (2015). A Cross-Dynamic Evaluation of Warehouse Operations. INFORMS Annual Meeting, November 1-4, 2015, Philadelphia, PA.

*Arslan, F.*, Bagchi, K., and Zhang, J. (2014). Evaluation of Firm-Level Technology Usage in Developing Countries. Proceedings of the Twentieth Americas Conference on Information Systems, Savannah, Georgia, August 7 - 9, 2014. {Conference Proceeding & Presentation}

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Mahmood, M. A., *Arslan, F.*, Dandu, J., and Udo, G. (2014). Impact of Cloud Computing Adoption on Firm Stock Price—An Empirical Research. Proceedings of the Twentieth Americas Conference on Information Systems, Savannah, Georgia, August 7 - 9, 2014. {Conference Proceeding & Presentation}

Ablanedo-Rosas, J. H., Olivares-Benítez, E., *Arslan, F.*, and Ablanedo-Rosas, G. (2014). Cross Evaluation Based on Financial-Ratios: The Case of Chinese Ports. Proceedings of the 45th Annual Meeting Conference, Decision Sciences Institute, Tampa, Florida, November 22-25, 2014.

*Arslan, F.*, Dayyala, N., Gemoets, L., Gonzales, M., and Barulina, M. (2013). Market value approach: Redefining Intangible Assets. Proceedings of the 44th Annual Meeting Conference, Decision Sciences Institute, Baltimore, Maryland, November 16-19, 2013. {Conference Proceeding & Presentation}

*Arslan, F.*, Ablanedo-Rosas, J. H., & Ruiz-Torrez, A. J. (2013, 11). A cross-dynamic evaluation of warehouse operations. 44th Annual Meeting Conference, Decision Sciences Institute, November 16-19, 2013, Baltimore, MD.

### White Papers

Co-authored a white paper on “Artificial Intelligence Applications in Agriculture” (August,2019)

### Book Reviews

*Arslan, F.* (2017). Bazzell, M., & Carroll, J. (2016). The Complete Privacy & Security Desk Reference- Volume I Digital. United States of America: CreateSpace Independent Publishing Platform, 478 pp. Journal of Information Privacy and Security, 13 (4), 316-318.

*Arslan, F.* (2017). Weapons of Math Destruction: How Big Data Increases Inequality and Threatens Democracy, by Cathy O’Neil: (2016). United States of America: Crown Publishers, 259 pp. Journal of Information Privacy and Security, 13 (3), 157-159.

*Arslan, F.* (2017). Security and Privacy in Social Networks, by Yaniv Altshuler, Yuval Elovici, Armin B. Cremers, Nadav Aharony, Alex Pentland: New York: Springer, 253 pp. Journal of Information Privacy and Security, 13 (2), 99-102.

*Arslan, F.* (2017). Thinking with Data: How to Turn Information into Insights, by Max Shron: (January 2014). United States of America: O'Reilly Media, Inc., 94 pp., Journal of Information Privacy & Security, 13 (1), 46–47.

*Arslan, F.* (2016). Social Physics: How Good Ideas Spread-The Lessons from a New Science, by Alex P. Pentland (2014). United States of America: The Penguin Press, 300 pp., Journal of Information Privacy & Security, 12 (4), 218-220.

*Arslan, F.* (2016). Discovering Computers 2016: Tools, Apps, Devices, and the Impact of Technology, by Misty E. Vermaat, Susan L. Sebok, Steven M. Freund, Jennifer T. Campbell, and Mark Frydenburg: (2015). Boston, MA, Cengage Learning, 590 pp., Journal of Information Privacy and Security, 12 (2), 103–104.

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## Courses Developed & Taught @ New Mexico State University

- BCIS 350/550 System Analysis & Design (complete redesign of the course)
- BCIS 475/575 Database Management Systems (redesigned the course to cover both operational and analytical databases)
- BCIS 338 Business Information Systems
- BCIS 502 Business Information Systems (refocused the course on strategic management and use of information systems, AI, Machine Learning and digital economy)
- BCIS 482/582 Information Security Management (significantly revised and updated content)
- BCIS 490 Social Analytics and Text Mining using R language (newly developed course)

## Certifications & Awards

- Certificate in Effective Instruction, Association of College and University Educators [2021]  
This certificate signifies my completion of a 25-module course in effective teaching practices requiring the implementation of evidence-based instructional approaches. The credential is co-issued by the American Council on Education and distinguishes faculty for their commitment to educational excellence and student success.
- Teaching Certificate, The University of Texas at El Paso, College of Business Administration.
- 6-Sigma Green Belt Certification, Performance Excellence Inc. (Sponsored by AT&T)
- AT&T Advanced Project Leadership Certification 2012.
- AT&T Mobility, IT ERP Customer Appreciation Award, September 2008.
- AT&T Key Contributor Award 2004, 2008, and 2009 and High-Performing Leadership Program (2011-2012).

## Service Activities

- Track Chair for The Global Information Technology Management Association (GITMA) 2026 Annual Conference at Tecnológico de Monterrey University in Monterrey, Mexico.
- Member of NMSU Global Faculty Advisory Committee and Faculty Senate Library Advisory Committee
- Served as a *senator* at the Faculty Senate for two terms
- Master's Thesis Chair for Hashem Aliedeh @ NMSU College of Business, MBA Program
- Committee Member: Omar Farooq, Shravya Dharba @ NMSU College of Business, Ph.D. in Management program
- Committee Member (Master's Oral Examination): Amber Martinez, Moein Afrouzmehr, Ryann Reagan, Shuan Li, @ NMSU College of Business, MS Applied Statistics and MS in Economics
- NMSU PI Academy Member (Spring 2019)
- NMSU Trio Upward Bound Program Workshop - Optimization using an Excel-based program. (June 2019)
- NMSU Trio Upward Bound Program Workshop – Information Systems Career Advice (October 2020)
- Book Review Editor for the Journal of Information Privacy and Security (2016-2017)
- Reviewer - Chapter 16 Data Warehousing and Business Intelligence of “Principles of Database Management” by Wilfried Lemahieu, Seppe Vanden Broucke & Bart Baesens.
- Ad hoc Reviewer for the International Journal of Information Management, Journal of Business Analytics, Int. Journal of Advanced Media and Communication, European Journal of Information Systems, International Journal of Information Security and Privacy, Journal of Information Privacy and Security; Journal of Theoretical and Applied Electronic Commerce Research; Hawaii International Conference on System Sciences; International Conference on Information Systems (ICIS); Americas Conference on Information Systems (AMCIS); Global Information Technology and Management Conferences, European Conference of Information Systems (ECIS), International Journal of Conflict Management

- Mini-track Chair for Americas Conference on Information Systems (AMCIS) 2015, 2014, and 2013 Conferences, *Strategic and Competitive Applications of Cloud Computing*; AMCIS 2018 Conference, *Big Data-Driven Process Mining and Innovation*.
- Committee Member (M.S. Thesis) Kumari Gayatri Damarasingu @ UHCL College of Science & Engineering

### **Industry Experience**

- *Associate Director- Decision Support & Process Improvement*, AT&T Shared Services (April 2006 – July 2012)
- *Senior Manager/Manager -Operations Support*, Cingular Wireless Transaction Processing Center (Nov 2004 – April 2006)
- *Senior Financial Analyst/ Financial Analyst II*, Cingular Wireless Transaction Processing Center (April 2002 – Nov 2004)
- *Business Analyst*, British Petroleum (June 1996 – July 1999)
- Management information systems consulting services to businesses in U.S.A. and Mexico.

### **Computer Skills**

- *Languages*: SQL, R, Python, VBA, Cypher (beginner-level)
- *DBMS*: MySQL, Oracle, MS SQL Server, MS Access, Neo4j (beginner-level)
- *Statistical Software Packages*: H.L.M., Stata, SPSS, WARP PLS, SAS., Econometric Views, and Minitab
- *Business Intelligence Tools*: Tableau, PowerBI, Business Objects, Brio v6.0, Hyperion Essbase Query and Reporting
- *Data Mining and Optimization Software*: Frontline Solver, XLMiner, RapidMiner
- *ERP*: Oracle ERP specialized in A/P, Purchasing and G/L modules
- *Project Management Software*: M.S. Project, ProjectLibre
- *Content Management Systems*: Cascade, WordPress + DIV 3.0 Theme

### **Language Skills**

English (Fluent), Spanish (Advanced), Turkish (Native), German (Beginner)

### **Professional Memberships**

Association of Information Systems, Decision Sciences Institute, Beta Gamma Sigma.