MARK T. LEUNG

Carlos Alvarez College of Business
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EDUCATION:

Doctor of Philosophy in Operations Management (minor in Decision Sciences),
Indiana University, Bloomington, Indiana, August 1999.

Master of Business in Operations Management,
Indiana University, Bloomington, Indiana, May 1996.

Master of Business Administration in Finance and Quantitative Analysis,
University of California, Riverside, California, June 1991.

Bachelor of Arts in Business Economics,
University of California, Santa Cruz, California, June 1989.

PROFESSIONAL EXPERIENCE:

2021 – pres. Associate Dean of Undergraduate Studies
Carlos Alvarez College of Business, University of Texas at San Antonio

2017 - 2021 Chair, Department of Management Science and Statistics
Carlos Alvarez College of Business, University of Texas at San Antonio

1999 - pres. Assistant Professor, Associate Professor, Professor, and Ricardo Romo Ph.D. Endowed Professorship
Carlos Alvarez College of Business and Honors College, University of Texas at San Antonio

Responsible for the instructions and development of syllabi, materials, and exams for a variety of core and elective courses for undergraduate and graduate business majors. Other responsibilities include presenting lectures, evaluating students and engaging in other instructional activities. Teaching experiences also involve development and refinement of the new courses in statistics core, undergraduate management science core, and in operations management electives. Promoted to the rank of tenured associate professor in 2004. Promoted to the rank of professor in fall 2021. Received Ricardo Romo Ph.D. Endowed Professorship fall 2023.

Received the Col. Jean Migliorino and Lt. Col. Philip Piccione Endowed Research Award in 2001, The University of Texas System Chancellor's Council Outstanding Teaching Award in both 2002 and 2005, the Best Undergraduate Professor Award in 2012, All-Star Professor Award (undergraduate and graduate levels) in 2013, 2014, 2015, and 2016, Patrick J. Clynes Excellence in Service Faculty Award, The University of Texas System Regents' Outstanding Teaching Award in 2013 (the highest teaching award in the University of Texas System), Endowed 1969 Commemorative Award for Overall Faculty Excellence in 2016, Undergraduate Research and Creative Inquiry Showcase Awards (College of Business and All-Campus Categories) in 2019, UTSA Undergraduate Research Faculty Mentorship Award in 2018 and 2022, E. Lou Curry Teaching Excellent Award in 2023, UTSA Richard S. Howe Outstanding Undergraduate Teaching Award in 2023 (the highest teaching award in UTSA), Ricardo Romo Ph.D. Endowed Professorship in 2023.

Courses developed and/or taught include:

Undergraduate Level:
MS 1013 (Quantitative Methods for Business and Economics)
MS 1023 (Business Statistics with Computer Applications I)
MS 3033 (Management Science and Production Management)
MS 3033H (MS 3033 offered by the College of Honors)
MS 3043 (Business Statistics with Computer Applications II)
MS 3053 (Management Science and Operations Technologies)
MS 3053H (MS 3053 for Honors College and Business Honors Programs)
MS 4353 (Service Operations Management)
MS 4543 (Supply Chain Management)
MS 4913 (Independent Study in Management Science)
MS 4933 (Internship in Management Science)
STA 1063 (Statistics for Business and Economics)

Master Level:
MS 5003 (Quantitative Methods for Business Analysis)
MS 5023 (Decision Analysis and Production Management)
MS 5413 (Integrated Global Supply Chain)
MS 5423 (Service Management and Operations)
STA 6543 (Data Analytics Algorithms II)

Doctoral Level:
STA 7013 (Advanced Applied Business Statistical Methods)
STA 7023 (Applied Linear Statistical Models)
STA 7211 (Doctoral Research)

Alvarez Fellows and Pre-Ph.D. Business Program (Undergraduate and Master Levels):
GBA 3013 (Introduction to Academic Research)
GBA 4023 (Conducting Cutting Edge and Innovative Discovery)*
GBA 4033 (Communication and Visualization of Impactful Research)*
GBA 4933 (Honor Thesis)
GBA 6013 (Graduate Academic Research and Programming)
GBA 6023 (Research Conceptualization, Methods, and Practice)*
GBA 6033 (Research Implementation, Reporting, and Engagement)*

Others:
Six Sigma Programs for Green Belt and Black Belt Certifications
ITESM Bridge Program in Analytics / AI (with Instituto Tecnológico y de Estudios Superiores de Monterrey / Monterrey Institute of Technology at Mexico)

1992 - 1999   Associate Instructor (Lecturer)
Kelley School of Business, Indiana University, Bloomington

Responsible for presenting lectures, developing course materials and exams, evaluating students, and engaging in other primary instructional activities. Teaching experience covers Operations Management courses for business majors and courses for non-business majors. *Received Teaching Excellence Recognition Awards and nominated for the Panschar Award for the Outstanding Associate Instructor of the Year in both 1998 and 1999.*

1991 - 1992   Graduate Teaching Assistant
Department of Economics, University of California, Riverside

Responsible for holding discussion sections, grading assignments, cases, and exams, assisting in the development of lecture materials and group cases, and evaluating students in the courses of Introductory Microeconomics, Introductory Macroeconomics, and Economic Analysis of Law.

1992   Grader / Reader
Anderson Graduate School of Management, University of California, Riverside

Assisted in grading of assignments, projects, and exams in the courses of Introductory Investment Theory (graduate level) and Security Analysis and Portfolio Management (undergraduate level).

1990 - 1992   Graduate Research Assistant
               Anderson Graduate School of Management, University of California, Riverside

               Assisted faculties in empirical research with topics in security analysis, options,
               and international investments. Primarily responsible for data collection and
               preparation, coding of SAS and other statistical programs for data analyses, and
               performing experimental analyses under supervision.

1988 - 1989   Course/Subject Tutor
               Learning Center, University of California, Santa Cruz

               Tutored assigned groups of undergraduate students in the field of Economics.
               Courses included Introductory Microeconomics, Intermediate Microeconomics,
               Managerial Economics, Introductory Statistics for Business, and Quantitative
               Methods for Business and Economics.

HONORS, GRANTS, AWARDS, RECOGNITIONS AND NOMINATIONS
(in chronological order):

- *Recipient of Summer Research Grant*
  College of Business, University of Texas at San Antonio,
  2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2010

- *Recipient of Ricardo Romo Ph.D. Endowed Professorship*
  Honors College, University of Texas at San Antonio, 2023

- *Recipient of Richard S. Howe Outstanding Undergraduate Teaching Award*
  (Highest Teaching Award at UTSA)
  University of Texas at San Antonio, 2023

- *Recipient of The E. Lou Curry Teaching Excellence Award*
  College of Business, University of Texas at San Antonio, 2023

- *Recipient of UTSA Faculty Service to Undergraduate Research and Creative*
  Inquiry Award (Faculty Mentorship)
  University of Texas at San Antonio, 2022

- *Fellow of Texas Academic Leadership Academy (TALA)*
  Texas Council of Chief Academic Officers, 2021

- *Recipient of Texas Higher Education Coordinating Board (THECB) Open Educational Resources Grant*
  Texas Higher Education Coordinating Board, 2021

- *Recipient of UTSA Libraries OER (Open Educational Resources / Adopt a Free Textbook) Grant*
  University of Texas at San Antonio, 2021

- *Recipient of Undergraduate Research and Creative Inquiry Showcase Awards (College of Business and All-Campus Categories)*
  University of Texas at San Antonio, 2019

- *Nominee for Ricardo Romo Endowed Professorship*
  College of Honors and University of Texas at San Antonio, 2019

- *Nominee for UTSA Faculty Service to Undergraduate Research and Creative Inquiry Award (Faculty Mentorship)*
  University of Texas at San Antonio, 2019

- *Recipient of UTSA Faculty Service to Undergraduate Research and Creative Inquiry Award (Faculty Mentorship)*
  University of Texas at San Antonio, 2018

- *Recipient of Undergraduate Research and Creative Inquiry Showcase Award*
  University of Texas at San Antonio, 2018

- *Recipient of Undergraduate Research and Creative Inquiry Showcase Award*
  University of Texas at San Antonio, 2017

- *Nominee of Ricardo Romo Endowed Professorship*
  College of Honors and University of Texas at San Antonio, 2017

- *Recipient of Endowed 1969 Commemorative Faculty Award for Overall Faculty Excellence*
  College of Business, University of Texas at San Antonio, 2016

- *Recipient of All-Star Professor Award (undergraduate and graduate levels)*
  Business Student Council, University of Texas at San Antonio, 2016

- *Recipient of All-Star Professor Award (undergraduate and graduate levels)*
  Business Student Council, University of Texas at San Antonio, 2015

- *Recipient of College of Business Teaching Honor Roll*
  College of Business, University of Texas at San Antonio, 2015

- *Nominee of 1969 Commemorative Faculty Award for Overall Faculty Excellence*
  College of Business, University of Texas at San Antonio, 2015

- *Recipient of All-Star Professor Award (undergraduate and graduate levels)*
  Business Student Council, University of Texas at San Antonio, 2014

- *Nominee for the United States CASE Professor of the Year*
  The Council for Advancement and Support of Education and the Carnegie Foundation, 2014

- *Nominee for Ricardo Romo Endowed Professorship*
  University of Texas at San Antonio, 2014

- *Recipient of University of Texas Regent's Outstanding Teaching Award*
  The University of Texas System, 2013

- *Nominee for Minnie Stevens Piper Distinguished Professorship*
  The University of Texas System, 2013

- *Nominee for President's Distinguished Achievement Award*
  University of Texas at San Antonio, 2013

- *Recipient of Patrick J. Clynes Excellence in Service Faculty Award*
  College of Business, University of Texas at San Antonio, 2013

- *Recipient of All-Star Professor Award (undergraduate and graduate levels)*
  Business Student Council, University of Texas at San Antonio, 2013

- *Inductee to University Academy of Distinguished Teaching Scholars*
  University of Texas at San Antonio, 2013

- *Inductee to The Honor Society of Phi Kappa Phi*
  The Honor Society of Phi Kappa Phi, 2013

- *Recipient of Best Undergraduate Professor Award*
  Business Student Council, University of Texas at San Antonio, 2012

- *Nominee for University of Texas Regent's Outstanding Teaching Award*
  The University of Texas System, 2012

- *Nominee for Minnie Stevens Piper Distinguished Professorship*
  The University of Texas System, 2012

- *Nominee for President's Teaching Excellence Award*
  University of Texas at San Antonio, 2012

- *Nominee for the E. Lou Curry Teaching Excellence Award*
  College of Business, University of Texas at San Antonio, 2012

- *Nominee for the Best Paper Award for the 2010 Financial Management Association Annual Meeting*
  Financial Management Association, 2010

- *Nominee for the 2009 MBA Association Faculty Award*
  MBA Association, University of Texas at San Antonio, 2009

- *Nominee for the Best Paper Award for 2008 IEEE International Conference on Industrial Engineering and Engineering Management*
  Institute of Electrical and Electronics Engineers, 2008

- *Honoree at the Annual Honor Gala*
  UTSA Honors Alliance (College of Honors), 2006

- *Recipient of The University of Texas System Chancellor's Council Outstanding Teaching Award* (second time)
  The University of Texas System, 2005

- *Recipient of The E. Lou Curry Teaching Excellence Award*
  College of Business, University of Texas at San Antonio, 2005

- *Recipient of Graduate Faculty Outstanding Teaching Award*
  MBA Association, University of Texas at San Antonio, 2005

- *Nominee for Minnie Stevens Piper Distinguished Professorship*
  The University of Texas System, 2004

- *Recipient of Graduate Faculty Outstanding Teaching Award*
  MBA Association, University of Texas at San Antonio, 2003

- *Recipient of Research Grant for Neural Network Studies*
  College of Business, University of Texas at San Antonio, 2003

- *Recipient of The University of Texas System Chancellor's Council Outstanding Teaching Award* (first time)
  The University of Texas System, 2002

- *Recipient of Research Grant for Transportation/Logistics Studies*
  College of Business, University of Texas at San Antonio, 2002

- *Recipient of Col. Jean Migliorino and Lt. Col. Philip Piccione Endowed Research Award*
  College of Business, University of Texas at San Antonio, 2001

- *Nominee for Advisory Council Faculty Award for Teaching*
  College of Business, University of Texas at San Antonio, 2001

- *Nominee for Advisory Council Faculty Award for Research*
  College of Business, University of Texas at San Antonio, 2000

- *Recipient of Teaching Excellence Recognition Award*
  Kelley School of Business, Indiana University, 1998 and 1999

- *Nominee for the Panschar Award for Outstanding Associate Instructor of the Year*
  Kelley School of Business, Indiana University, 1998 and 1999

- *Recipient of Doctoral Research Grant*
  Kelley School of Business, Indiana University, 1998

- *Recipient of Fee Scholarship (Master and Doctoral)*
  Kelley School of Business, Indiana University, 1992-1997

- *Recipient of Graduate Fellowship*
  Anderson Graduate School of Management, University of California, Riverside, 1991

- *President's Honor List*
  Evergreen Valley College, San Jose, California, 1987

- *Recipient of President's Scholarship*
  Carleton University, Ottawa, Canada, 1984

DISSERTATION:

Title: Multiobjective Models for Business Decision Making: Applications to Production Planning and Investment Analysis

Completion: August 1999

Chair: Dr. Roger W. Schmenner
Members: Dr. James D. Blocher, Dr. M. Venkataramanan, and Dr. Wayne L.Winston

Publications: Essays from dissertations were published in *Decision Sciences* and *European Journal of Operational Research*

REFEREED PUBLICATIONS:

[1] "Blockchain-based Vehicular Ad-hoc Networks: A Comprehensive Survey," *Ad Hoc Networks* (2022), Vol. 137, 102980-103280. With Sanjeev Kumar Dwivedi, Ruhul Amin, Ashok Kumar Das, Kim-Kwang Raymond Choo, Satyanarayana Vollala.
DOI: 10.1016/j.adhoc.2022.102980

[2] "PUF-based Authentication and Key Agreement Protocols for IoT, WSNs and Smart Grids: A Comprehensive Survey," *IEEE Internet of Things Journal* (2022), Vol. 9, Issue 11, 8205-8228. With Priyanka Mall, Ruhul Amin, Ashok Kumar Das, and Kim-Kwang Raymond Choo.
DOI: 10.1109/JIOT.2022.3142084

[3] "Financial Hedging in Energy Market by Cross-Learning Machines," *Neural Computing and Applications* (2020), Vol. 32, 10321-10335. With An-Sing Chen, Shaotao Pan, Ching-Yun Chou.

[4] "Predicting the Expected Waiting Time of Popular Attractions in Walt Disney World," *Journal of Undergraduate Research and Scholarly Works* (2019), Vol. 6. With Dayanira Mendoza and Wenbo Wu. **Publication and research collaboration with undergraduate student. Received best paper awards in 2019 UTSA Undergraduate Research Showcase.**

[5] "Strategic Analysis and Evaluation of Cheesecake Factory's Supply Chain: Uncertainties, Challenges, and Remedies," *Journal of Undergraduate Research and Scholarly Works* (2019), Vol. 6. With Brittany Farley, Michele Kidd, and Scot Morgan. **Publication and research collaboration with undergraduate and graduate students.**

[6]   "Finite Mixture Partial Least Squares for Segmentation and Behavioral Characterization of Auction Bidders," *Decision Support Systems* (2014), Vol. 57, 200-211. With Ruben Mancha, Jan Clark, and Minghe Sun.

[7]   "Predicting the Performance of a Two-Stage Flowshop: Lower Bounds and Heuristics for Single and Bicriteria Measures," *Advances in Business and Management Forecasting* (2013), Vol. 9, 199-227. Single author.

[8]   "Exposure to Internet Pornography among Taiwanese Adolescents," *Social Behavior and Personality* (2013), Vol. 41, Issue 1, 157-164. With Ansing Chen, Chih-Hao Chen, and Shu Ching Yang.

[9]   "An Application of Orthogonal Polynomial Projections and Ensembles in the Hedging of Crude Oil Commodity Risk," *Expert Systems with Applications* (2012), Vol. 39, Issue 9, 7864-7873. With Ansing Chen and Ling-Hua Wang.

[10]   "The Performance of Enhanced-Return Index Funds: Evidence from Bootstrap Analysis," *Quantitative Finance* (2012), Vol. 12, Issue 3, 383-395. With Ansing Chen and Yeh-Chung Chu.

[11]   "A Case Study of Bayesian Belief Network in Industrial Work Process Design Based on Utility Expectation and Operational Performance," *International Journal of Productivity and Performance Management* (2012), Vol. 61, Issue 7, 765-777. With Rolando Quintana.

[12]   "Forecasting, Control and Management of a Production System Using Predictive Visual Interactive Simulation," *Advances in Business and Management Forecasting* (2011), Vol. 8, 185-198. With Rolando Quintana.

[13]   "Recognition of Geometric and Frequency Patterns for Improving Setup Management in Electronic Assembly Operations," *Advances in Business and Management Forecasting* (2010), Vol. 7, 183-206. With Rolando Quintana.

[14]   "Making Trading Decisions for Financial-Engineered Derivatives: A Novel Ensemble of Neural Networks Using Information Content," *Intelligent Systems in Accounting, Finance and Management* (2009), Vol. 16, Issue 4, 257-277. With Ansing Chen and Ruben Mancha.

[15]   "Stocking Policy in a Two-Party Vendor Managed Channel with Space Restrictions," *International Journal of Production Economics* (2009), Vol. 117, Issue 2, 271-285. With Kefeng Xu.

[16] "Make-to-Order Product Demand Planning Using Adaptive Neural Network Forecasting," *Advances in Business and Management Forecasting* (2009), Vol. 6, 249-266. With Rolando Quintana and Ansing Chen.

[17] "Corrective Maintenance through Dynamic Work Allocation and Preemption: Case Study and Application," *International Journal of Production Research* (2009), Vol. 47, Issue 13, 3539-3557. With Rolando Quintana, J. Rene Villalobos, and Michael Graul.

[18] "Enhancing Productivity in Manual Electronics Assembly and Inspection through Illumination Design," *International Journal of Productivity and Performance Management* (2008), Vol. 57, Issue 4, 297-315. With Rolando Quintana and Ansing Chen.

[19] "Adaptive Smoothing versus Conventional Approach for Lumpy Demand Forecasting: Case of Production Planning for a Manufacturing Line," *International Journal of Production Research* (2007), Vol. 45, Issue 21, 4937-4957. With Rolando Quintana.

[20] "Evaluation of Financial Time Series Forecasts and Performance of Artificial Neural Networks," *FSR Forum (Financial Study Association of Rotterdam)* (2006), Vol. 8, November Issue, 7-11. With Ruben Mancha.

[21] "Modeling Time Series Information into Option Prices: An Empirical Evaluation of Statistical Projection and GARCH Option Pricing Model," *Journal of Banking and Finance* (2005), Vol. 29, Issue 12, 2947-2969. With Ansing Chen.

[22] "Performance Evaluation of Neural Network Architectures: The Case of Predicting Foreign Exchange Correlation," *Journal of Forecasting* (2005), Vol. 24, Issue 6, 403-420. With Ansing Chen.

[23] "Regression Neural Network for Error Correction in Foreign Exchange Forecasting and Trading," *Computers and Operations Research* (2004), Vol. 31, Issue 7, p. 1049-1068. With Ansing Chen. **On the List of the Top 25 Most Requested Papers in the journal.**

[24] "Option Straddle Trading: Financial Performance and Economic Significance of Direct Profit Forecast and Conventional Strategies," *Applied Economic Letters* (2003), Vol. 10, Issue 8, p. 493-498. With Ansing Chen.

[25] "Stock Auction Bidding Behavior and Information Asymmetries: An Empirical Analysis using the Discriminatory Auction Model Framework," *Journal of Banking and Finance* (2003), Vol. 27, Issue 5, p. 867-889. With Ansing Chen and Gwohorng Liaw.

[26] "A Bayesian Vector Error Correction Model for Forecasting Exchange Rates," *Computers and Operations Research*, (2003), Vol. 30, Issue 6, p. 887-900. With Ansing Chen.

[27] "Application of Neural Networks to an Emerging Financial Market: Forecasting and Trading the Taiwan Stock Index," *Computers and Operations Research* (2003), Vol. 30, Issue 6, p. 901-923. With Ansing Chen and Hazem Daouk. **On the List of the Top 10 Most Downloaded Articles in SSRN (Economics Networks)**.

[28] "Using Investment Portfolio Return to Combine Forecasts: A Multiobjective Approach," *European Journal of Operational Research*, (2001), Vol. 134, Issue 1, p. 84-102. With Ansing Chen and Hazem Daouk.

[29] "Forecasting Stock Indices: A Comparison of Classification and Level Estimation Models," *International Journal of Forecasting*, (2000), Vol. 16, Issue 2, p. 173-190. With Hazem Daouk and Ansing Chen. **The number 1 most-requested paper (with 535 requests) from the International Journal of Forecasting in the year 2000.**

[30] "Forecasting Exchange Rates Using General Regression Neural Networks," *Computers and Operations Research*, (2000), Vol. 27, Issue 11-12, p. 1093-1110. With Ansing Chen and Hazem Daouk.

[31] "Customer Order Scheduling in a General Job Shop Environment," *Decision Sciences*, (1998), Vol. 29, Issue 4, p. 951-981. With James D. Blocher and Dilip Chhajed.

[32] "The Stochastic Properties and Predictability of Taiwan Exchange Rates," *International Review of Financial Analysis*, (1998), Vol. 7, Issue 3, p. 207-220. With Ansing Chen.

[33] "Dynamic Foreign Currency Trading Guided by Adaptive Forecasting," *Review of Pacific Basin Financial Markets and Policies*, (1998), Vol. 1, Issue 3, p. 383-418. With Ansing Chen.

BOOK CHAPTERS:

[1]   "Structural Equation Modeling," in *SAGE Encyclopedia of Research Design*, 2nd Edition, Ed. B. B. Frey, (2022), Sage Publications: Thousand Oaks, California, 1629-1635. With Ruben Mancha. DOI: https://dx.doi.org/10.4135/9781071812082.n607

[2]   "Bayesian Deep Generative Machine Learning for Real Exchange Rate Forecasting," in *Contemporary Perspectives in Data Mining*, Vol. 4, Ed. K. Lawrence and R. Klimberg, (2020), Information Age Publishing: Scottsdale, Arizona, 11-23. With Shaotao Pan and Ansing Chen.

[3]   "A Review of Data Analytic Methods and Their Applications in E-Commerce Research," in *Electronic Commerce: Technologies, Challenges and Future Prospects*, Ed. K. Lawrence, (2017), Nova Science Publishers: Hauppauge, New York, 1-81. With Shaotao Pan and Minghe Sun.

[4]   "Bootstrap Aggregation for Neural Network Forecasting of Supply Chain Order" in *Contemporary Perspectives in Data Mining*, Vol. 3, Ed. K. Lawrence and R. Klimberg, (2017), Information Age Publishing: Scottsdale, Arizona. With Shaotao Pan.

[5]   "Methods for Customer Analytics of Heterogeneous E-Commerce Populations," in *Contemporary Perspective in Data Mining*, Vol. 2, Ed. K. Lawrence and R. Klimberg, (2015), Information Age Publishing: Scottsdale, Arizona, 55-75. With Ruben Mancha.

[6]   "Agency: A Historical Evaluation and Interdisciplinary Framework," in *Handbook on Psychology of Decision-Making: New Research*, Ed. Karen O. Moore and Nancy P. Gonzalez, (2012), Nova Science Publishers: Hauppauge, New York, 275-284. With Ruben Mancha and Jan Clark.

[7]   "Bartlett's Test," in *Encyclopedia of Research Design*, Vol. 2, Ed. L.J. Salkind, (2010), Sage Publications: Thousand Oaks, California. With Jerome Keating.

[8]   "Structural Equation Modeling," in *Encyclopedia of Research Design*, Vol. 3, Ed. L. J. Salkind, (2010), Sage Publications: Thousand Oaks, California. With Ruben Mancha.

WORK IN PROGRESS:

"Do work environments co-influence with leadership styles and genders?
An examination of women leader's relative management effectiveness subject to degree of work centralization." With Adriana Meza, Miriam Douglas, Shawn Marchand, and Veronica Diaz. *Paper presented at 2022 UTSA Undergraduate Research Showcase and received the third place in short presentation category. The pilot version is expected to be submitted to Journal of Undergraduate Research and Scholarly Works in 2022 summer for review*.

"How Helpful are Comparative Reviews for Predicting Product Demand?" With Naga Vemprala, Charles Liu, Raymond Choo, and Hongyi Zhu. Paper is in the final stage of preparation and to be submitted to *Decision Support System*.

"Effects of Covid Pandemic on Tesla Supply Chain Distribution Network and Remedial Strategies." With Thao Nguyen, Miguel Teran, and Matthew Silvas. (*Research collaboration with undergraduate students. Paper presented at 2020 UTSA Undergraduate Research Showcase and submitted to Journal of Undergraduate Research and Scholarly Works for review*.**)**

"Co-influence Among Socioeconomic Factors and Internet Infrastructure Characteristics: A Taxonomical Review." With Maria Love. (*Research collaboration with undergraduate students. Paper presented at 2020 UTSA Undergraduate Research Showcase and submitted to Journal of Undergraduate Research and Scholarly Works for review*.**)**

"Afterpay: what is this fintech and how does it compare with other payment methods?" With Elshaday Dandena, Victor Feagins, Valerie Valdez, Jesus Virlar. (*Research collaboration with undergraduate students. Paper presented at 2020 UTSA Undergraduate Research Showcase and submitted to Journal of Undergraduate Research and Scholarly Works for review*.**)**

"Managing Financial Trading Risk with Self-Organizing Kernel Machines." With An-Sing Chen and Ching-Yun Chou.

"A Real Estate Asset Allocation Perspective of Enhancing Hedge Fund Performance by Mean-Variance Spanning." With An-Sing Chen and Chao-Hui Huang.

"Block-Bagging Resampling Approach to Improve Machine Accuracy of Production Forecasting." With Shaotao Pan.

Mark T. Leung

"Effects of Supply Chain Order Lumpiness and Non-Stationarity on Predictive Analytic Performance of Machine Learning." With Shaotao Pan.

"Predicting Student Attrition Using Machine Learning Techniques." With Ricardo Rosales and Minghe Sun. (*This research project is collaborated with an undergraduate student and was featured in the 2014 UTSA Undergraduate Research Symposium and an invited paper to the 2015 Gulf Coast Research Symposium. It has received recognitions / grants from UTSA and Rice University.*)

"Price Promotion of a Technology Product and Distortion Effect on System Profitability: Supply Chain Analytics." With David Tschirtart. (*This research project is collaborated with an undergraduate student and was showcased in the 2019 UTSA Undergraduate Research Symposium.*)

"FIMIX-PLS versus REBUS for Predicting Online Customer Behavior and Pricing Scheme." With Ruben Mancha.

PROCEEDINGS:

[1] "Hedging in Energy Market by a Dynamic Statistical Learning Model," *Proceedings of the 2016 Conference on Applied Financial Modelling (CAFM)*, 2016.

[2] "Nonparametric Kernel Approach to Hedging Commodity Futures Contracts," *Proceedings of the 2015 Annual Meeting of the Decision Sciences Institute*, 2015.

[3] "An Intelligent Decision Support System for Adaptive Prediction of Student Attrition," *Proceedings of the 2015 Annual Meeting of the Decision Sciences Institute*, 2015.

[4] "What Brings Customers Back to an Online Auction? The Effects of Uncertainty, Enjoyment, and Posted Bids," *Proceedings of the 2014 Americas Conference on Information Systems (AMCIS)*, 2014.

[5] "An Efficient Algorithm for Layout Design of Flexible GT Cells by Intelligent Computer System," *Proceedings of the 2014 International Conference on Artificial Intelligence and Industrial Application (AIIA)*, 2014.

[6] "Establishing Work Design Criteria through a Highest Expected Utility Neural Network Model: An Automotive Trim Case Study," *Proceedings of the 2008 IEEE International Conference on Industrial Engineering and Engineering Management*, 2008.

[7] "A Paradigm for Group Technology Cellular Layout Planning in JIT Facility," *Proceedings of the 2008 IEEE International Conference on Industrial Engineering and Engineering Management*, 2008. **Selected as a finalist for the Best Paper Award.**

[8] "Volatility Estimators and Multivariate Nonlinear Statistical Projection in the Pricing of Treasury Note Futures Options," *Proceedings of the 32nd Annual Meeting of Western Decision Sciences Institute*, 2003.

[9] "Optimal Vendor-Managed Inventory Policy in Retail Supply Chains," *Proceedings of the 2002 Annual Meeting of the Decision Sciences Institute*, 2002.

[10] "Stock Auction Bidding Behavior and Information Asymmetries: An Empirical Analysis using the Discriminatory Auction Model Framework," *Proceedings of the 12th International Conference on Comparative Management*, 2002.

[11] "Performance Evaluation of Neural Network Architectures: The Case of Predicting Foreign Exchange Correlations," *Proceedings of the 2001 Annual Meeting of the Decision Sciences Institute*, 2001.

[12] "Multiobjective Customer Order Scheduling for a Job Shop," *Proceedings of the 11th International Conference on Comparative Management*, 2000.

[13]   "Using Investment Portfolio Return to Combine Forecasts: A Multiobjective Approach," *Proceedings of the 1999 Annual Meeting of the Asia Pacific Decision Sciences Institute*, 1999.

[14]   "Forecasting Stock Indices: A Comparative Evaluation of Multivariate Classification and Level Estimation Models," *Proceedings of the 1999 Annual Meeting of the Asia Pacific Decision Sciences Institute*, 1999.

[15]   "Forecasting U.S. Stock Market Volatility Index: A Global Volatility Spillover Approach," *Proceedings of the Sixth Annual Global Finance Conference*, 1999.

[16]   "The Stochastic Properties and Predictability of Taiwan Exchange Rates," *Proceedings of the Fifth International Meeting of Decision Sciences Institute*, 1998.

[17]   "Material Flow Oriented Layout Design for Cellular Manufacturing System," *Proceedings of the Ninth International Conference on Comparative Management*, 1998.

[18]   "Modeling and Predicting Monthly Currency Exchange Rates Using General Regression Neural Networks," *Proceedings of the Fourth International Meeting of Decision Sciences Institute*, 1997.

[19]   "Foreign Currency Investment Strategies Guided by Parametric and Nonparametric Forecasting Models," *Proceedings of the Eighth International Conference on Comparative Management*, 1997.

[20]   "Predicting the Direction of Broad Stock Index Returns: A Comparison of Nonparametric Probabilistic Neural Network with Parametric Econometric Models," *Proceedings of the First Asia Pacific Decision Sciences Institute Conference*, 1996.

[21]   "A Financial Strategy for Stock Index Trading Using Learning Networks," *Proceedings of the Seventh International Conference on Comparative Management*, 1996.

PAPERS FOR PRESENTATIONS:

[1] "Heuristics for Scheduling Orders in Job Shop Environments," 1995 Annual Institute for Operations Research and Management Sciences (INFORMS) Meeting, October 1995, New Orleans.

[2] "Heuristics for Scheduling Orders in Job Shop Environments," Sixth Annual Meeting of the Production and Operations Management Society, October 1995, Pittsburgh.

[3] "A Financial Strategy for Stock Index Trading Using Learning Networks," Seventh International Conference on Comparative Management, May 1996, Taiwan.

[4] "Predicting the Direction of Broad Stock Index Returns: A Comparison of Nonparametric Probabilistic Neural Network with Parametric Econometric Models," First Asia Pacific Decision Sciences Institute Conference, June 1996, Hong Kong.

[5] "A Comparative Study on the Predictability of the U.S. Market Volatility Based on Informational Spillovers from International Markets," 16th International Symposium on Forecasting, June 1996, Istanbul, Turkey.

[6] "Predictability of the U.S. Market Volatility Based on Informational Spillovers from International Markets," 1996 Annual Meeting of Financial Management Association, October 1996, New Orleans.

[7] "Foreign Currency Investment Strategies Guided by Parametric and Nonparametric Forecasting Models," Eighth International Conference on Comparative Management, May 1997, Taiwan.

[8] "Modeling and Predicting Monthly Currency Exchange Rates Using General Regression Neural Networks," Fourth International Meeting of Decision Sciences Institute, July 1997, Sydney, Australia.

[9] "Dynamic Investment Decision Rules for Japanese Yen Trading," Fifth Conference on Pacific Basin Business, Finance, and Economics, July 1997, Singapore.

[10] "A Non-Linear Model for Exchange Rate Forecasting Based on Adaptive Learning," Annual Meeting of Financial Management Association, October 1997, Honolulu, Hawaii.

[11] "Material Flow Oriented Layout Design for Cellular Manufacturing System," Ninth International Conference on Comparative Management, May 1998, Taiwan.

[12] "The Stochastic Properties and Predictability of Taiwan Exchange Rates," Fifth International Meeting of Decision Sciences Institute, July 1998, Taipei, Taiwan.

[13] "On the Forecasting and Trading of Taiwan Stock Index," 1998 Annual Meeting of Financial Management Association, October 1998, Chicago.

[14] "Forecasting U.S. Stock Market Volatility Index: A Global Volatility Spillover Approach," Sixth Annual Global Finance Conference, April 1999, Istanbul, Turkey.

[15] "Multiobjective Customer Order Scheduling for a Job Shop," 1999 Annual INFORMS Meeting, May 1999, Cincinnati, Ohio.

[16] "Using Investment Portfolio Return to Combine Forecasts: A Multiobjective Approach," 1999 Annual Meeting of the Asia Pacific Decision Sciences Institute, June 1999, Shanghai, China.

[17] "Forecasting Stock Indices: A Comparative Evaluation of Multivariate Classification and Level Estimation Models," 1999 Annual Meeting of the Asia Pacific Decision Sciences Institute, June 1999, Shanghai, China.

[18] "Forecasting Currency Exchange Rates Using Learning Networks: The Case of British Pound," 1999 Annual Meeting of Financial Management Association, October 1999, Orlando, Florida.

[19] "Using Investment Portfolio Return to Combine Forecasts: A Multiobjective Approach," 1999 Annual Meeting of Financial Management Association, October 1999, Orlando, Florida.

[20] "Forecasting Stock Indices: A Comparative Evaluation of Multivariate Classification and Level Estimation Models," 1999 Annual Meeting of Financial Management Association, October 1999, Orlando, Florida.

[21] "A Bayesian Vector Error Correction Model for Forecasting Exchange," 2000 Annual Meeting of Financial Management Association, October 2000, Seattle, Washington.

[22] "Multiobjective Customer Order Scheduling for a Job Shop," 11th International Conference on Comparative Management, December 2000, Kaohsiung, Taiwan.

[23] "Performance Evaluation of Neural Network Architectures: The Case of Predicting Foreign Exchange Correlations," 2001 Annual Meeting of Financial Management Association, October 2001, Toronto, Canada.

[24] "Performance Evaluation of Neural Network Architectures: The Case of Predicting Foreign Exchange Correlations," 2001 Annual Meeting of Decision Sciences Institute, November 2001, San Francisco.

[25] "Stock Auction Bidding Behavior and Information Asymmetries: An Empirical Analysis using the Discriminatory Auction Model Framework," 10th Conference on the Theories and Practices of Securities and Financial Markets, December 2001, Kaohsiung, Taiwan.

[26] "Stock Auction Bidding Behavior and Information Asymmetries: An Empirical Analysis using the Discriminatory Auction Model Framework," 12th International Conference on Comparative Management, May 2002, Kaohsiung, Taiwan.

[27] "Volatility Estimators and Multivariate Nonlinear Projection in the Pricing of Treasury Note Options," 14th Annual APFA/PACAP/FMA Finance Conference, July 2002, Tokyo, Japan.

[28] "Volatility Estimators and Multivariate Nonlinear Statistical Projection in the Pricing of Treasury Note Options," 2002 Annual Meeting of Financial Management Association, October 2002, San Antonio, Texas.

[29] "Optimal Vendor-Managed Inventory Policy in Retail Supply Chains," 2002 Annual Meeting of Decision Sciences Institute, November 2002, San Diego.

[30] "Volatility Estimators and Multivariate Nonlinear Statistical Projection in the Pricing of Treasury Note Futures Options," 52nd Annual Meeting of Midwest Financial Management Association, March 2003, St. Louis, Missouri.

[31] "Volatility Estimators and Multivariate Nonlinear Statistical Projection in the Pricing of Treasury Note Futures Options," 32nd Annual Meeting of Western Decision Sciences Institute, April 2003, Kauai, Hawaii.

[32] "Price Support in Taiwan IPO Stock Auctions," 2005 Annual Meeting of Financial Management Association, October 2005, Chicago.

[33] "Establishing Work Design Criteria through a Highest Expected Utility Neural Network Model: An Automotive Trim Case Study," 2008 IEEE International Conference on Industrial Engineering and Engineering Management, December 2008, Singapore.

[34] "A Paradigm for Group Technology Cellular Layout Planning in JIT Facility," 2008 IEEE International Conference on Industrial Engineering and Engineering Management, December 2008, Singapore. **Selected as a finalist for the Best Paper Award.**

[35] "Informational Content and Market Timing Value of Linear Versus Nonlinear Projections of Technical Indicators for Stock Index Forecasting," 2009 Annual Meeting of European Financial Management Association, June 2009, Milan, Italy.

[36] "Do Enhanced-Return Index Funds Show Excellent Management Skills? New Evidence from a Bootstrap Analysis," 2009 Annual Meeting of Financial Management Association, October 2009, Reno, Nevada.

[37] "Financing Constraints, Investment Opportunity, and the Association between Stock Returns and Accounting Earnings," 2010 Annual Meeting of Financial Management Association, October 2010, New York, New York. **Selected as a semi-finalist for the Best Paper Award.**

[38] "Application of Polynomial Projection Ensembles to Hedging Crude Oil Commodity Risk," 2011 Annual Meeting of Financial Management Association, October 2011, Denver, Colorado.

[39] "What Brings Customers Back to an Online Auction? The Effects of Uncertainty, Enjoyment, and Posted Bids," 2014 Americas Conference on Information Systems (AMCIS), August 2014, Savannah, Georgia.

[40] "An Efficient Algorithm for Layout Design of Flexible GT Cells by Intelligent Computer System," 2014 International Conference on Artificial Intelligence and Industrial Application (AIIA 2014), September 2014, Hong Kong.

[41] "An Intelligent Decision Support System for Adaptive Prediction of Student Attrition," Invited Paper, 2015 Gulf Coast Research Symposium, October 2015, Rice University, Houston, Texas.

[42] "Nonparametric Kernel Approach to Hedging Commodity Futures Contracts," 2015 Annual Meeting of Financial Management Association (FMA), October 2105, Seattle, Washington.

[43] "Nonparametric Kernel Approach to Hedging Commodity Futures Contracts," 2015 Annual Meeting of Decision Science Institute (DSI), November 2015, Seattle, Washington.

[44] "An Intelligent Decision Support System for Adaptive Prediction of Student Attrition," 2015 Annual Meeting of Decision Science Institute (DSI), November 2015, Seattle, Washington.

[45] "Hedging in Energy Market by a Dynamic Statistical Learning Model," Conference on Applied Financial Modeling (CAFM), February 2016, Melbourne, Australia.

[46] "Hedging in Energy Market by Cross-Learning Machines," submitted to 2018 Annual Meeting of Financial Management Association (FMA), October 2018, San Diego, California.

UNPUBLISHED WORKING PAPERS:

"Support Vector Machine for Classification and Profiling of Online Auction Bidders." With Ruben Mancha and Minghe Sun.

"Pipelined Recurrent Neural Network and Nonlinear ARIMA in Production Forecasting." With Ansing Chen.

"Simulation Analysis of Macroeconomic Impact on a Food Supply Chain." With Ricardo Rosales and Ruben Mancha.

"Evaluation of Front Desk Operations at a University Library." With David Tueme.

"Data Analysis of Medical Service Provider," currently in the process of data collection and analysis. With Russell Fair and Kefeng Xu.

"Service Structure of Operations at a Military Call Center," currently in the process of data collection and analysis. With Kefeng Xu and Jeremy Cernik.

"Valuation of Contracts in a Strategic Vendor-Managed Inventory Partnership." With Kefeng Xu. (Work in progress)

"Setting Due Dates in Customer Order Scheduling Environment: A Comparison of Neural Networks and Empirical Approaches." With James D. Blocher.

"Comparison and Analysis of Production Control Mechanisms for A Multi-Product Linked-Cell Manufacturing System." Single authorship.

"Flexible Horizon Framework in Cyclical and Non-Cyclical Scheduling with Dynamic Demands." Single authorship.

"Cellular Manufacturing Systems: A Taxonomic Review." Single authorship.

"Cell Pacing System -- An Analysis and Case Study." With Kaushik Sengupta and F. Robert Jacobs.

"Comparative Evaluation of A Neural Network Algorithm for GT Cell Formation." With F. Robert Jacobs.

OTHER PUBLICATIONS / MEDIA APPEARANCES & INTERVIEWS:

- Interviewed by KSAT12 (San Antonio TV station) for "Global Shortage in Semiconductor Supply Chain (2-part series)," April 2021; Aired on May 23/24, 2021.

- Interviewed by and appeared on KENS5 (San Antonio TV station) for "Second wave of supply chain retail shortage?" November 2020.

- Interviewed by and appeared on WOAI Radio Station (national radio syndication) for "Shortage of Toilet Paper Again? Panic Buying Will Come and Go," November 2020.

- Interviewed by Rivard Report and appeared in streaming for "Tech of Tomorrow: How coronavirus accelerated artificial intelligence" in *Rivard Report: A Conversation with Lindsey Carnett and Mark Leung*, June 18, 2020.

- Interviewed by Rivard Report for "Will coronavirus outbreak affect companies adopt robotics and AI?" May 2020; appeared in "The Nonhuman Touch Pandemic Hastens Push for AI, Robotics" in *Rivard Report*, May 20, 2020.

- Interviewed and appeared on Cheddar News on Pluto TV (national internet streaming TV station) for "Pricing, Revenue Management, and Economics of Waiting at Disney World," February 2020.

- "Nobody likes to wait: Researchers using science to improve queues," with Wenbo Wu, published in *Park World* September 2019.

- "Researcher study theme park wait times," with Wenbo Wu, published in *The Paisano* (UTSA Newspaper) Vol. 60, Issue 8, October 15-22, 2019.

- Interviewed and appeared in *San Antonio Express* (newspaper) for "Impact of artificial intelligence and agile machines on supply chain and economy," 2019.

- Interviewed by and appeared on KSAT Evening News (San Antonio TV station) for "Impact of artificial intelligence and agile machines on supply chain and economy," 2019.

- Interviewed by and appeared on KSAT Evening News (San Antonio TV station) for "Analysis and improving theme park waiting and operational efficiency," 2019.

- Interviewed by and appeared on Spectrum TV News (national internet streaming TV station) for "Analysis and improving theme park waiting and operational efficiency," 2019.

- Interviewed by and appeared on WOAI Radio Station (national radio syndication) for "Using data analytics to increase profitability of Disney World and other theme parks," 2019.

- Published a column in *San Antonio Business Journal* in a section called "Looking Back & Ahead," 2014.

- Prepared an article of personal achievement and financial / economic outlook of 2014 for the University Office of Communications and Marketing, 2013.

PROPOSALS FOR GRANTS:

- Grant for Instructional Development from Ricardo Romo Ph.D. Endowed Professorship & Honors College; role: reciepient; amount: $833; status: funded in September 2023 through May 2024.

- Scholarship Grant for HACU/USAA/UTSA Financial Literacy and Entrepreneurship Joint Project; role: co-developer and co-leader; amount: $300 scholarship per student participant; status: implemented and funded in June to August 2023, sponsored by UTSA Strategic Enrollment.

- KPMG Reaching New Heights Grant for Diversity Equity and Inclusivity; role: Principal Investigator (PI) on behalf of Alvarez College of Business; status: submitted in August 2022, not funded.

- "Expansion of Undergraduate Research Enterprise Platform for Student Success and Excellence" for UTSA Strategic Investment Fund (SIF); role: Principal Investigator (PI) on behalf of Alvarez College of Business and Student Success Center (SSC); requested amount: $80000 matching by $70000 from ACOB; status: submitted in March 2022, not funded.

- "Promoting and Retaining Academic Inclusiveness in STEM Education (PRAISE)" for NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM), NSF 21-550; funding agency: National Science Foundation; role: Principal Investigator (PI); requested amount: $1.5 million; status: selected for limited submission and final proposal submitted in April 2021, not funded.

- UTSA Libraries Adopt-A-Free-Textbook Grant; funding agency: UTSA Libraries; role: Principal Investigator (PI); requested amount: $1000; status: submitted in March 2021, selected and funded in April 2021.

- Texas Higher Education Coordinating Board (THECB) Open Educational Resources Grant Program (OERGP), Implementation of OER to Core Curriculum; funding agency: Texas Higher Education Coordinating Board; role: Principal Investigator (PI); requested amount: $5000; status: submitted in January 2021, selected and funded in July 2021.

- Fund for the Improvement of Postsecondary Education – Open Textbook Pilot Program; funding agency: Department of Education; role: Principal Investigator (PI); requested amount: $500k; status: not funded.

- Texas Higher Education Coordinating Board (THECB) Open Educational Resources Grant Program (OERGP), RFA # 22545; funding agency: Texas Higher Education Coordinating Board; role: Principal Investigator (PI); requested amount: $25000; status: selected for limited submission and final proposal submitted in June 2020, not funded.

- "Strengthening the COB STEM Research Infrastructure" for FOA W911NF-20-S-0010; funding agency: Department of Defense (DoD); role: Co-Principal Investigator (co-PI); requested amount: $600k; status: proposal submitted for limited submission in June 2020, not funded.

- NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM), NSF 20-526; funding agency: National Science Foundation; role: Principal Investigator (PI); requested amount: $1 million; status: selected for limited submission and final proposal submitted in April 2020, not funded.

- "Bridging Gaps for Graduate Education and Research (BiGGER) in Business;" funding agency: U.S. Department of Education; role: Co-Principal Investigator (co-PI), requested amount: $500k; status: selected for limited submission and final proposal submitted in 2019, not funded.

PROFESSIONAL CONSULTING PROJECTS

- Develop an autonomous fixed income trading platform using artificial intelligence. External partner / client is SWBC.

- Examine and evaluate the economic impact of a proposed logistical distribution network utilizing the new border crossing at Eagle Pass, Texas. Also expect to provide feedback and recommendation regarding transportation, facilities, supporting infrastructure, and supply chain inventory.

CURRENT RESEARCH INTERESTS:

- Machine Learning, Artificial Intelligence (AI), and Applications
- Design of ML/AI/Evolutionary Systems
- Data/Predictive Analytics and Business (Financial and Manufacturing) Forecasting
- Modeling of Financial Markets and Trading
- Machine-Human Interactions, Behaviors, and Decision Making

TEACHING INTERESTS (Both Graduate and Undergraduate levels):

- Undergraduate Pre-Ph.D. Research and Experiential Learning
- Supply Chain and Logistics Management
- Production and Service Operations Management
- Business Forecasting and Analytics
- Applied Business Statistics and Quantitative Methods

PROFESSIONAL AFFILIATIONS:

- The Institute of Operations Research and Management Sciences (INFORMS)
- The Decision Sciences Institute (DSI)
- Financial Management Association (FMA)
- The Honor Society of Phi Kappa Phi

ACADEMIC COMMUNITY SERVICES/ACTIVITIES:

Reviewer for Books and Non-Periodic Publications

- Book reviewer, *Service Management: Operations, Strategy, Information Technology, 8th Edition*, written by James A. Fitzsimmons, Mona J. Fitzsimmons, and Sanjeev Bordoloi, published by McGraw Hill in 2013. Reviews conducted in 2011 and 2012.

- Book reviewer, *Business Statistics, 1st Edition*, written by Robert Donnelly, published by Pearson in 2012. Separate reviews conducted in early and late 2011.

- Book reviewer, *Decision and Information Analysis, 1st Edition*, written by Patrick Noonan, published by McGraw-Hill/Irwin. Review conducted in 2008.

- Book reviewer, *Basic Business Statistics, 1st Edition*, written by Stine and Foster, published by Addison-Wesley in 2008. Separate reviews conducted in 2007 and 2008.

- Book reviewer, *Elementary Statistics, 2nd Edition*, written by Marilyn Pelosi and Theresa Sandifer, published by John Wiley and Sons in 2004. Review conducted in 2003.

- Book reviewer, *Neural/Genetic Forecasting for Financial Decision-Making*, written by Paul McNelis (Georgetown University), published by Academic Press in 2005. Review conducted in 2002.

- Editorial journal prospectus reviewer, *Quantitative Marketing and Economics*, Review conducted in 2001.

Ad Hoc Reviewer for Peer-Refereed Journals

- Year 2023
  Intelligent Systems in Accounting, Finance and Management , International Journal of Production Research, Neural Computing and Applications (2 times).

- Year 2022
  Energies, Neural Computing and Applications.

- Year 2021
  European Journal of Operational Research, Intelligent Systems in Accounting, Finance and Management, Neural Computing and Applications.

- Year 2020
  Applied Sciences (2 times), European Journal of Operational Research, Intelligent Systems in Accounting, Finance and Management, International Journal of Finance and Economics, International Journal of Production Research, Neural Computing and Applications (2 times).

- Year 2019
  International Journal of Information Technology & Decision Making, International Journal of Production Research (2 times), Journal of Organizational Computing and Electronic Commerce, Neural Computing and Applications (2 times).

- Year 2018
  Applied Economics, Computers and Operations Research, Intelligent Systems in Accounting, Finance and Management, International Journal of Finance and Economics, International Journal of Production Research (2 times), North American Journal of Economics and Finance, Open Petroleum Engineering Journal, Theoretical Economics Letters.

- Year 2017
  Cluster Computing (2times), Computer and Operations Research, International Journal of Production Research (3 times), Internet Research, Journal of Retailing and Consumer Services, Neural Computing and Applications, PLOS One.

- Year 2016
  Advances in Fuzzy Systems, Computational Intelligence and Neuroscience, International Journal of Computers and Applications, International Journal of Productivity and Performance Management (4 times), International Journal of Production Research (4 times), Journal of Economics and Business.

- Year 2015
  Advances in Fuzzy Systems, Applied Mathematics-A Journal of Chinese Universities, Cluster Computing, Decision Support System, European Journal of Operational Research, Industrial & Engineering Chemistry Research, International Journal of Financial Studies, International Journal of Operations and Production Management, International Journal of Productivity and Performance Management, PLOS One.

- Year 2014
  Decision Support Systems, European Journal of Operational Research (2 times), International Journal of Productivity and Performance Management (3 times), International Journal of Production Research, ISRN Economics, Omega, Mathematical Problems in Engineering, Sun-Yat-Sen Management Review.

- Year 2013
African Journal of Business Management, Decision Sciences (2 times), Decision Support Systems, European Journal of Operational Research, Intelligent Systems in Accounting, Finance and Management (2 times), International Journal of Forecasting, International Journal of Production Economics (2 times), International Journal of Production Research, ISRN Economics (5 times).

- Year 2012
European Journal of Operational Research (3 times), Intelligent Systems in Accounting, Finance and Management (2 times), International Journal of Production Economics, ISRN Economics (4 times), Linear Algebra and its Applications.

- Year 2011
African Journal of Business Management, Intelligent Systems in Accounting, Finance and Management (2 times), International Journal of Production Economics (2 times), International Journal of Productivity and Performance Management, International Journal of Production Research (2 times), Mathematical and Computer Modeling, Transportation Research Part E.

- Year 2010
Applied Mathematics and Computation, European Journal of Operational Research, International Journal of Production Economics (2 times), International Journal of Production Research, International Journal of Operations and Quantitative Management, IMA Journal of Management Mathematics, Transportation Journal.

- Year 2009
European Journal of Operational Research (2 times), IMA Journal of Management Mathematics, International Review of Economics and Finance, Quantitative Finance, Research in International Business and Finance.

- Year 2008
European Journal of Operational Research (2 times), International Journal of Production Economics, International Journal of Production Research, Studies in Nonlinear Dynamics & Econometrics.

- Year 2007
Asia Pacific Management Review (2 times), Computational Statistics and Data Analysis, European Journal of Operational Research, Latin American Business Review (2 times), Quantitative Finance (2 times), Studies in Nonlinear Dynamics & Econometrics.

- Year 2006
IEEE Transactions on Neural Networks (2 times), International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Journal of Money, Credit, and Banking, Neurocomputing, Omega, Quantitative Finance.

- Year 2005
  International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Neurocomputing, Pattern Recognition Letters.

- Year 2004
  Computers and Operations Research, Decision Sciences (2 times), European Journal of Operational Research, Financial Review, IEEE Transactions on Systems, Man, and Cybernetics, International Journal of Information Technology & Decision Making, Journal of Futures Markets, Omega, Pattern Recognition Letters.

- Year 2003
  Applied Stochastic Models in Business and Industry, Computers and Operations Research (2 times), Decision Sciences (2 times), International Journal of Production Economics.

- Year 2002
  Decision Sciences, Financial Review, International Journal of Information Technology and Decision Making, International Journal of Production Economics.

- Year 2001
  Decision Sciences, International Journal of Forecasting, International Review of Financial Analysis.

- Year 2000
  Decision Sciences (2 times), International Review of Financial Analysis, Review of Quantitative Finance and Accounting.

- Year 1999
  International Review of Financial Analysis.

- Year 1998
  Computers and Operations Research, International Review of Financial Analysis.

Paper Reviewer for Peer-refereed Articles Submitted to Conferences

- Years 2000, 2001, 2002, 2004, 2015, 2017
  Paper reviewer, Finance Tracks of the Decision Sciences Institute Annual Meetings.

- Year 2002
  Paper reviewer, Finance Track of the Western Decision Sciences Institute Meeting.

- Years 1996, 2007, 2008, 2010, 2011, 2012, 2013, 2014, 2016
  Paper reviewer, Service and Manufacturing / Production Operations Management Track of the Decision Sciences Institute Annual Meetings.

- Year 2009
  Paper reviewer, DSS/AI/Expert System Track of the Decision Sciences Institute Annual Meetings.

- Year 2008
  Paper reviewer, Facilities Planning and Management Track of the IEEE International Conference on Industrial Engineering and Management.

Editorial Boards and Positions for Refereed Journals

- Year 2022 (invited; I have yet to make the acceptance decision)
  Co-Editor of *International Journal of Innovative Research and Scientific Studies* (Economics, Finance and Management Area)

- Year 2021 – present
  Editorial board of *International Journal of Economics and Financial Research*

- Year 2021 – present
  Editorial board of *Archives of Behavioral Science*

- Year 2020 – present
  Editorial board of *Theoretical Economics Letters*

- Year 2020 – present
  Editorial board of *Modern Economy*

- Year 2018 - present
  Editorial board of *Systems (OA Journal)*

- Year 2012 - present
  Editorial board of *Intelligent Systems in Accounting, Finance and Management*

- Year 2014 - 2017
  Editorial board of *International Scholarly Research Notices / PLOS*

- Year 2012 - 2014
  Editorial board of *ISRN Economics*

- Year 2012 - present
  Editorial board of *European Economics Letters*

- Year 2007
  Associate editor of *International Journal of Production Economics* for the special issue on Operations Strategy and Supply Chain Management

External Reviewer for Faculty Tenure Promotion

- Year 2007
  External reviewer for the promotion of Professor Po-Fan Shen,
  Department.of Finance, Hsing-Kuo University of Management, Taiwan.

<u>Supervising Member on Dissertation / Thesis Committees</u>

Name: Jonathan A. Vance
Degree: Master of Science in Statistics
Master thesis: A Continuous Emission Tracking and Predictive Model for Emissions
                Reduction and Process Improvement
Completion date: May 2005
Degree granting institute: University of Texas at San Antonio
Thesis committee chair: Dr. Rolando Quintana

Name: Chao Hui Huang
Degree: Master of Business Administration in Finance
Master thesis: An Asset Allocation Perspective of Hedge Fund Performance by Using
                Tests of Mean-Variance Spanning
Completion date: July 2006
Degree granting institute: National Chung Cheng University, Taiwan
Thesis committee chair: Dr. An-Sing Chen

Name: Ruben Mancha
Degree: Doctor of Philosophy in Business Administration (in Information Science)
Doctoral dissertation: Rationality and Buy Prices in Online Auction of Digital Goods
Completion date: August 2010
Degree granting institute: University of Texas at San Antonio
Dissertation committee chair: Dr. Jane Clark
Recipient of the 2010 Presidential Dissertation Fellowship / Award

Name: Dianna C. Krueger
Degree: Doctor of Philosophy in Business Administration (in Management)
Doctoral dissertation: The Relations Among Applicants' Weight, Conscientiousness
                      Levels, and Job Type on Job Suitability Ratings and Hiring
                      Recommendations
Completion date: August 2011
Degree granting institute: University of Texas at San Antonio
Dissertation committee chair: Dr. Dianna Stone

Name: Teresa L. (Svacina) Johnson
Degree: Doctor of Philosophy in Business Administration (in Management)
Doctoral dissertation: The Effects of Organizational, Website, and Applicants'
                      Characteristics on Perceptions of Person-Organization Fit and
                      Organizational Attraction
Completion date: August 2013
Degree granting institute: University of Texas at San Antonio
Dissertation committee chair: Dr. Dianna Stone

Name: Andrea Neely
Degree: Doctor of Philosophy in Business Administration (in Management)
Doctoral dissertation: Employee Perceptions of Human Resources and the Formation of
                      the Psychological Contract
Completion date: December 2015
Degree granting institute: University of Texas at San Antonio
Dissertation committee chair: Dr. Mark Lengnick-Hall

Name: Naga Vemprala
Degree: Doctor of Philosophy in Business Administration (in Information System)
Doctoral dissertation: Data Analytics for Enhancing Decision Making and Situation
                      Awareness in Business and Crisis Management
Completion date: August 2021
Degree granting institute: University of Texas at San Antonio
Dissertation committee chairs: Drs. Raymond Choo and Charles Liu

SERVICES AND ADMINISTRATIVE DUTIES FOR UTSA:

<u>Departmental Level</u>

- Affirmative Action Advocate (AAA) in Faculty Search Committee for the Department of Accounting, 2006-2007, 2007-2008

- Affirmative Action Advocate (AAA) in Faculty Search Committee for the Department of Economics, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2012-2013

- Affirmative Action Advocate (AAA) in Faculty Search Committee for the Department of Information Systems and Cyber Security, 2004-2005, 2005-2006, 2009-2010, 2010-2011, 2011-2012, 2013-2014, 2014-2015, 2015-2016, 2017-2018, 2018-2019

- Affirmative Action Advocate (AAA) in Faculty Search Committee for the Department of Management, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2013-2014, 2014-2015, 2015-2016

- Affirmative Action Advocate (AAA) in Faculty Search Committee for the Department of Marketing, 2013-2014, 2014-2015

- Development of Management Science Core (MS Sequence) for Undergraduate Business Programs (All BBA Majors), 2003-2005

- Department Academic Program Review Committee (Co-Chair), 2017-2018

- Department B.B.A. in Business Analytics Degree Program Development and Implementation, 2018-present

- Department Coordinating Committee, 2013-2014

- Department Faculty Advisory Committee, 2005-present

- Department Faculty Annual Evaluation Review Committee, 2023

- Department Faculty Review Advisory Committee, 2005-present (Chair in 2022, 2023)

- Department Faculty Search Committee, 2001-2003, 2003-2005

- Department Graduate Catalog Change Committee (Co-Chair), 2018, 2020

- Department Journal and Conference Ranking Committee, 2013-2014, 2019-present

- Department Online Course Developer (for MS Sequence), 2016-present

- Department Peer Observations Committee, 2013-2017, 2020-present

- Department Comprehensive Periodic Evaluation CPE-DFRAC Committee, 2012 (Chair), 2016, 2022 (Chair)

- Department Supply Chain and Operations Management Programs Development, 2019-present

- Department QLP / EQS Coordinator, 2016-present (in conjunction with the University QLP / QEP Committee, followed by University Core Curriculum Assessment Committee)

- Department SECC Area Champion, 2012-2017

- Department Service Components Committee, 2013-2016

- Department Undergraduate Catalog Change Committee (Co-Chair), 2017, 2019, 2021

- Department Undergraduate Curriculum and Programs Review Committee, 2004-2005, 2005-2007, 2007-2009, 2009-2010. 2013-2014, 2016-2017

- AACSB / SACS Accreditation and Assessment of Learning (AoL) Coordinator (undergraduate BBA and MS/OSCM certificate programs), 2007-present

- Library Liaison for the Department of Management Science and Statistics, 2000-2003, 2009-2018

- PhD in Applied Statistics Proposal Committee, 2004-2005

- Search Committee Chair for Department of Marketing Chair, 2021-2022

- Search Committee Chair for Department of Management Science & Statistics Chair, 2022

- Six Sigma Executive Program for H.E.B. Black Belt and Green Belt Certifications, 2007

- Support Department of Biology on Development of Undergraduate Bio-Analytics Program, 2019-present

- Trainer and Representative for FAIR, Digital Measures, and Blackboard Learn Systems for the Department of Management Science and Statistics, 2009-present

College of Business Level

- Affirmative Action Advocate (AAA) in Search Committee for the Office of COB Graduate Program, 2005-2006

- College of Business Alvarez Fellows and Pre-Ph.D. Business Programs Committee, 2019-present (Chair)

- College of Business Award Committee, 2018-2019

- College of Business Data Analytics Bootcamp (joint venture with Office of Vice Provost for Academic Innovation and Trilogy), 2019-present

- College of Business Faculty Forum, 1999-present

- College of Business Graduate Faculty Forum, 1999-present

- College of Business Doctoral Program and Research Committee, 2003-2005

- College of Business Executive Programs Committee, 2006-2008, 2010-2012, 2012-2014

- College of Business Faculty Development Leave Committee, 2005-2006

- College of Business Faculty Forum/Graduate Faculty Forum Executive Committee, 2008-2010

- College of Business Full-Time Track (FTT) Faculty Transition and Policy Task Force, 2020

- College of Business Holiday Planning Committee, 2016

- College of Business Immersion Program, 2019-2020

- College of Business Instructional Efficiency Team (for Budget and Revenue), 2020

- College of Business Pre-Business Mathematics Course and Curriculum Redevelopment Committee, 2016-2018 (Co-Chair), 2019-2021

- College of Business Pre-Ph.D. and Undergraduate Research Enterprise (URE) Programs Planning and Implementation, 2018-present (Co-Chair)

- College of Business M.B.A. International Committee, 2006-2008, 2008-2010

- College of Business Mexican ITESM Analytics/AI Training Program, 2018-2020

- College of Business Online Program and Course Planning and Development Committee, 2016-present

- College of Business Master of Science in Data Analytics (MSDA) Committee, 2018-2021

- Search Committee Chair for Associate Dean of Graduate Studies, 2023-2024

- College of Business Student Success Center (SSC), 2021-present (Administrator)

- College of Business Undergraduate Programming and Efficiency Committee, 2013-2014 (first seal team), 2016-2017 (second seal team), 2017 (third seal team)

- College of Business Undergraduate Programs Committee, 2014-2015, 2015-2016, 2016-2017

- College of Business Undergraduate Research Committee, 2013-2014, 2014-2015

- College of Business USAF Data Analytics Clinic Program (founding member in collaboration with Center of Professional Excellence), 2021

- Secretary of Division (former Management & Marketing) Faculty Forum, 2000-2001

- College of Business Teaching Advisory Committee, 2002-2003

- College of Honors Admission / Selection Committee, 2017

University Level

- Banner Marshal, December Commencement, 2004, 2005, 2006, 2007, 2008, 2010, 2013

- Banner Marshal, May Commencement, 2006, 2007, 2008, 2010, 2011

- Banner Marshal, Convocation, 2009 (September)

- University Commencement Head Marshal, 2012 (May and December), 2017 (May)

- University Commencement Stage Party Representative of College of Honors, 2005 (May)

- University Commencement Stage Party Representative of College of Business, 2011 (December), 2022 (May, in the Role of Dean of College)

- University Academy of Distinguished Teaching Scholars, 2013-present

- University Academy of Distinguished Teaching Scholars Technology and Online Learning Sub-Committee, 2016-present

- University AIS Redesign Committee, 2020-2021

- University Aspire's Institutional Change (IC) Network (Institutional Self-Assessment on Inclusive Faculty Hiring), 2019-present

- University Associate Dean Council, 2021-present

- University Auxiliary Operations Peer Review Board, 2006-2008

- University Core Curriculum Assessment Committee, 2012-2014 (Sub-Chair), 2015-2017 (Sub-Chair for EQS Area)

- University Core Curriculum Refresh Work Group, 2022-2022

- University Curriculum-to-Career Innovation Institute (CCII) with American Association of College & University (AAC&U), 2023

- University Department Chair Council, 2017-2021

- University DFW Task Force (ADTS Sub-Committee), 2015-present

- University Equitable Student Pathways (ESP) & Course Insights Analytics Project (UT System Lumina Partnership and APLU), 2023

- University Faculty Grievance Committee, 2010-2012, 2012-2014, 2014-2016, 2016-2018, 2018-2020 (Chair), 2020-2023 (Presidential Appointee & Chair). 2023-2024 (Presidential Appointee)

- University Faculty Grievance HOP 2.34 Review and Redesign Task Force, 2022 (Chair)

- University Faculty Grievance Review Panel, 2017 (Chair)

- University / University of Texas System Faculty Tribunal, 2021-2022 (Chair)

- University Faculty Senate Academic Freedom and Tenure Committee, 2006-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

- University Faculty Senate Evaluation, Merit, Rewards, and Workload Committee, 2003-2004, 2006-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

- University Graduate Program Evaluations Committee, 2003-2005

- University Graduate School Task Force for Management and Organizational Studies NRUF Application, 2020-2021

- University Graduate Student Success Task Force (by Provost & Graduate School), 2019-2020

- University Graduate Student Success Task Force Subcommittee on Value Added Programming, Career Outcomes and Alumni, and Postdoctoral Training, 2019-2020

- University GREAT Proposal Review Committee, 2022

- University HACU-USAA-UTSA Financial Proficiency and Entrepreneurship Project (Student Service Learning), 2023

- University Health Analytics Program & Planning Advisory Committee, 2019-2020

- University Honors Vice Provost and Dean of Honors Education Search Advisory Committee, 2023

- University Human Resources Focus Group for Administrators, 2017-2018

- University Integrated Design Initiative Task Force (with Provost and Deans of CACP and COE on Merger), 2020

- University Libraries Committee, 2010-2012

- University Master of Science in Artificial Intelligence (MSAI) Proposal and Development Consortium, 2020-2021

- University Multi-Disciplinary Studies (MDST) Program & Planning Advisory Committee, 2019-2021

- University NRUF PhD Program Analytics Project, 2019-2020

- University Online Programming Task Force (with VP of Academic Innovation), 2019-present

- University Parking Appeals Panel, 2006-2009, 2014-2018

- University Parking and Traffic Committee, 2009-2010

- University Peer Mentoring Chair for New Department Chairs (PMT), 2021-2022

- University Phase 2 Equitable Student Pathways PAIR Cohort (supported by UT System Lumina Foundation Grant), 2023

- University Provost's Tactical Team #3 - Advancing Belonging and the "Out of Classroom" Experience in the Digital Era Tactical Team (co-led by Dean Gerry Sanders and Senior Vice Provost LT Robinson), 2020

- University QLP / QEP Committee, 2014-2016

- University QLP / QEP Proposal Review Committee, 2012, 2013, 2014

- University School of Data Science (SDS) Programming & Planning Advisory Committee, 2018-2021

- University School of Data Science Living and Learning Community (LLC) Planning Committee, 2019-2021

- University Selection Committee on UT System Chancellor's Teaching Award, 2004, 2006, 2008, 2009 (Chair)

- University Selection Committee on President's Distinguished Achievement Awards, 2006

- University Selection Committee on Minnie Stevens Piper Professor Award (state-wide), 2008

- University Selection Committee on UT Regents Outstanding Teaching Award, 2018

- University Service-Learning Advisory Board, 2013-2014, 2014-2015

- University Strategic Investment Fund (SIF) Committee, 2021, 2022

- University Student Experience Project (SEP) with SEP Institute, 2023

- University Trilogy TES/UTSA Data Analytics Bootcamp Program, 2020-2021

- University Tuition and Fee Proposal Committee, 2013-2014

- University Undergraduate Research & Creative Inquiry Showcase Planning Committee, 2013-2014

- University UTSA Thrive Think Tank, 2022-2023

- University Vice President of Business Affairs (VPBA) Search and Advisory Committee, 2018-2019

Miscellaneous

- Advisor to Business Student Fraternity, 2006-present

- College of Business Graduate Programs Open House, 2018, 2019, 2020

- College of Business Pre-Ph.D. Symposium Planning, 2020

- College of Business Diversity, Equity and Inclusivity (DEI) Symposium, 2022, 2023

- Department of Management Science and Statistics Graduate Programs Open House and Recruitment Event, 2018

- Provide consulting and guidance opinions to Tomas Rivera Learning Center and Office of Undergraduate Studies (Graduation Initiative) for improvement of instructional effectiveness and retention / graduation rate, 2007

- Provide training in conjunction with Legal Affairs Office for faculty members on grievance process and HOP policies, 2020

- Faculty Advisor / Sponsor to The Chess Society, 2012-present

- Faculty Advisor / Sponsor to The Foodies Society, 2014-present

- Faculty Participant / Advisor to UTSA Student Government Association (SGA), 2021

- HACU/USAA/UTSA Financial Literacy and Entrepreneurship Joint Project (co-developer & co-leader), 2023

- Online Course Developer for MS Sequence (BBA Majors) and STA 1053 (UTSA Core Curriculum)

- Texas Academic Leadership Academy (TALA) (from Texas Council of Chief Academic Officers), 2021-2022

- Texas Higher Education Coordinating Board (Academic Course Guide Manual Learning Outcome – Business Programs), 2018-2021

- Undergraduate Research Mentor and Collaborator with Undergraduate Students for Annual Research Showcase and Inquiry Symposium, 2014, 2015, 2016, 2018, 2019, 2021, 2022, 2023

- UTSA/Roadrunners Days for College Level Recruitment and Program Promotion, 2021-present

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10/02/23

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