

# Monica E. Brussolo

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## Education

- Doctor of Philosophy in Public Policy and Political Economy. May 21, 2011, The University of Texas at Dallas, Richardson, Texas, Dissertation Title: The Kuznets Hypothesis Revisited: Exploring Mexican Inequality at the Sub-National Level.
- Master of Science in Economics, December 8, 2007, The University of Texas at Dallas, Richardson, Texas.
- Master of Business Administration, December 16, 2000, Texas A&M International University, Laredo, Texas, Business Administration.
- Bachelor Degree in Accounting September 6, 1999, Autonomous University of Tamaulipas, Victoria, Mexico.
- Bachelor Degree in Management September 1, 1997, Autonomous University of Tamaulipas, Victoria, Mexico.

## Professional Experience

Senior Lecturer, 2011 – Present. The University of Texas at Dallas, Richardson, Texas.

- Graduate Courses: Statistics and Data Analysis, Statistics for Data Science, Quantitative Introduction to Risk and Uncertainty in Business, Economics for Public Policy, and Supply Chain Management Internship.
- Undergraduate Courses: Managerial Methods in Decision Making under Uncertainty, Quantitative Business Analysis, Introduction to Social Statistics, and International Finance.
- Course Coordinator for “Managerial Methods in Decision Making under Uncertainty” a statistics core course for all Management majors, in charge of assessment data and coordination with instructors for changes in course objectives and rubrics.
- Course Coordinator for “Quantitative Business Analysis” an undergraduate course for some Management majors, in charge of coordinating with instructors for changes in course objectives and rubrics.
- Faculty Advisor for INFORMS UTD Student Chapter, focused on preparing industry visits and talks about Business Analytics and Operation Management. Active participants: +70 students.
- President for INFORMS DFW Chapter professional organization, organizing seminars and talks with different industry experts.
- Supervised 2 part-time Teaching Assistants and served + 300 students per semester.

Director of Undergraduate Supply Chain Management Program – March, 2019 – Present.

- Promote the school and the program among undecided undergraduates and high school students.
- Evaluate the curriculum of the program and compare it with the best ranking programs in other universities.
- Make decisions about improvements in the curriculum that matches the industry trends.

Director of the Jindal School of Management Statistics and Math Lab, Jan 2015 – Dec 2018.

- Designed and managed an undergraduate Lab to provide assistance to students enrolled on business quantitative courses. Served 300 students visits per long semester.
- Supervised 3- Full time tutors and 2 part-time Teaching Assistants.

Assistant Director of Institutional Research, 2011 – 2012.

Collin County Community College District, McKinney, Texas.

- Designed and conducted research studies with particular emphasis on student outcomes research, to address concern such as student learning, student success, student satisfaction, and other student-related issues as requested by departments, divisions, and administrators.

Teaching and Research Assistant, 2007 –2010.

School of Economic, Political and Policy Sciences, The University of Texas at Dallas, Richardson, Texas.

Courses:

- Descriptive and Inferential Statistics,
- Econometrics,
- Advanced Regression Analysis,
- Techniques of Economic Research, and
- Principles of Microeconomics.

Projects:

- Economic Inequality and Violence in the Andean Region, and
- Analysis of Unobservable Factors in U.S. Asylum Cases.

Associate Faculty, 2006 – 2008.

Economics Department, Collin College, Plano, Texas.

Courses:

- Introduction to Economics,
- Principles of Macroeconomics, and
- Principles of Microeconomics,

Research Associate, 2006.

Center of Behavioral and Experimental Economic Science, The University of Texas at Dallas, Richardson, Texas.

- The Neighborhood Project: A Comparison of Individual Preferences for Risk, Time and Cooperation.

Accounting Manager, 2003 – 2004.

Alliance Data Systems – MBX, Dallas, Texas.

- Conducted monthly closing activities for Mail Box – ADS, public traded company.
- Performed analysis of revenue and expenses compared to forecast.
- Prepared financial statements, sales reports, forecasts and budgets per line of business.
- Leading Manager of Operations and Accounting system conversion with companywide impact.

Internal Auditor, 2001 –2003.

Mail Box Capital Corporation, Dallas, Texas.

- Created and monitored internal controls for operations and finance.
- Simplified procedures improving control of running expenditure.
- Researched production and operations discrepancies.
- Overall understanding of operations activities and project management responsibilities.

Adjunct Professor, 1998 – 1999.

School of Management, Autonomous University of Tamaulipas, Victoria, Mexico.

Courses and service:

- Investment Analysis,
- Finance for Project Management,
- Advance Management Topics,
- Total Quality Management Certification, and
- Member of the Committee for the creation of new Management and Finance Program.

General Manager, 1998.

Arguera Group, Victoria, Tamaulipas, Mexico.

- Managed the decision making process in the field of human resources, physical assets, capital and information of the company.
- Analyzed financial information of the company for decision making related with investments and mergers.

Economic Development Department Chief, 1997 & 1999.

City Hall Victoria, Tamaulipas, Mexico.

- Researched and generated economic indicators used to develop regional economic development strategies.
- Designed and developed public surveys to obtain information from the population about pressing social and policy issues, to revise the policy agenda of local governments.
- Conducted research of assets and investors availability, and organization of agendas and business meetings to promote local and international investment in the region.

Administrative Development and Total Quality Department Chief, 1996 –1997.

City Hall Victoria, Tamaulipas, Mexico.

- Performed administrative audits for the departments of the City Hall.
- Developed the organizational and procedures manuals.
- Organized training sessions, seminars and conferences for different organizational levels.

## **Research Interests**

- Social and Economic Inequality,
- Development Economics,
- College Educational Outcomes,
- Use of technology on Education,
- International Migration,
- Economics of Education,
- Regional Economic Development,
- Spatial Analysis of Social and Economic Issues, and
- Applications to Latin America and Mexico.

## **Research, Presentations and Conferences**

- Alimirzaei, A., Brussolo, M. E., and Khatri, S.P. (2019). Applying Integer Programming in an Everyday Transportation Case: An Optimization Problem. *Operations Management Education Review*, forthcoming.
- Brussolo, M. E. (2017). Effects on Inequality of a Radical Wave of Reforms: The Mexican Case. *International Journal of Social Sciences and Humanities (Revista Internacional de Ciencias Sociales y Humanidades), SOCIOTAM*; 27(2), (pp. 35-46).

- “Solving a Complex Transportation Problem Using Integer Linear Programming” presentation at the INFORMS International Conference, Cancun, Mexico, June 2019.
- Brussolo, M.E. (2018). Understanding the Central Limit Theorem the Easy Way: A Simulation Experiment. *Proceedings of the 2<sup>nd</sup>. Innovative and Creative Education and Teaching International Conference*. Badajoz, Spain: 2(21), 1322.
- Baum, N., Kulkarni, N, and Brussolo, M.E. Reducing Corporate Waste, the Case of Nordstrom Coffee Shop. Presented in the *Undergraduate Research Scholar Award Poster Competition*. April 2018.
- Luxembourg Income Study – Intensive Research Workshop in Inequality and LIS Databases. LIS: Cross-National Data Center in Luxembourg, Maison des Sciences Humaines, Esch-Belval, Luxembourg, June 2017.
- “The Effects of Inequality of a Reformist Agenda, an Interrupted Time Series Analysis” presentation at the APPAM International Conference APPAM International Conference: *Inequalities: Addressing the Growing Challenge for Policymakers Worldwide*. The London School of Economics, June, 2016.
- “Twenty Years of Inequality in Mexico: A Regional Analysis and Policy Implications” presentation at the Center of U.S. - Latin America Initiatives (CUSLAI) Lecture Series 2016-2017. The University of Texas at Dallas, October 2017.
- “The ABC’s of Higher Education” presentation at The Empowerment of Women through Education Forum. Entrepreneur and Professional Women Association (AMEP) and University of Texas at Dallas, September 2016.
- “Fifteen Years of Inequality in Mexico, a renewed analysis” presentation at Mexican Politics (PSCI 4331 by invitation). The University of Texas at Dallas, October 2015.
- Brussolo, M.E. (2012). Gender Inequality in the Mexican Labor Market: A Regional Analysis. In S. Garay & S. Vazquez (Eds.), *Labor outcomes for Different Demographic Groups* (pp. 39-68). UAT/UANL (Spanish).
- “2012 Mexican Elections: Outcomes and Interpretations” presentation at the US- Mexico Lecture Series. Co-sponsored by the School of Economic, Political and Policy Sciences and the School of Arts and Humanities. The University of Texas at Dallas, September 2012.
- “Fifteen Years of Social Inequality in Mexico: A Sub-National Kuznets Analysis.” Presentation at the US - Mexico Lecture Series. Center of US and Mexico Studies. The University of Texas at Dallas, October 2011.
- “Examining Mexican Regional Inequality and How Indigenous Populations are affected” presented in the 2010 International Symposium of Regional Inequality in Times of Globalization at the Center for Latin American and Caribbean Studies. Michigan State University, April 2010.
- “Technology Applications to Higher Education: the Virtual Classroom” presented at the National Conference of Public University Educators. San Luis Potosí State University, Mexico, November 1998.
- “The Productivity Virtuous Circle in the Mexican Labor Market” presented at the National Conference of the Summer of Scientific Research, Mexico, August 1994.

## **Professional Memberships**

- Member of the Institute of Operations Research and Management Sciences.
- Member of the INFORMS DFW Chapter.
- Member of the Consortium for the Advancement of Undergraduate Statistics Education.
- Member of the National Association of Institutional Research, 2011-2012.

## **Honors and other Recognitions**

### Awards and Nominations

- Nominated to the President's Teaching Excellence Award for Graduate/Professional Instruction, 2019.
- Instructional Improvement Award earned to develop a simulation for OPRE 6301, a graduate core course, 2018.
- Summa Cum Laude Award to INFORMS Student Chapter (2016), as their Advisor.
- Cum Laude Awards to INFORMS Student Chapter (2015 & 2017), as their Advisor.
- Owlie Award as Jindal Master Mentor, 2016.
- Passed with Distinction. Doctoral Methods Qualifier Exam, 2008.
- Magna Cum Laude and Student Graduation Speaker, Bachelor Degree in Accounting, 1998.
- Award “Francisco T. Villarreal” for the Best University Student of the year 1996. Autonomous University of Tamaulipas, 1997.
- Summa Cum Laude and Dean’s List, Bachelor Degree in Management, 1996.
- Professional Exam with Distinction, awarded by Defense Committee, 1996.
- Recipient of National Award of the Scientific Research Summer, 1994.

### Scholarships

- Full Scholarship Recipient for Doctoral Degree awarded by the Mexican Council for Science and Technology, 2005 - 2010.
- Excellence Scholarship Recipient awarded by the Mexican Department of Education, 2007-2008.
- Graduate Fellowship recipient at Texas A&M International University, 1999 - 2000.
- Scholarship recipient awarded by the Council for Science and Technology & Banco de Mexico for Master Degree studies, 1999 - 2000.

### Diverse Postings

- UTD Senator, 2017- 2019.
- Advisor of Informs UTD Student Chapter, 2015 – current.
- Elected Officer of the INFORMS- DFW Chapter 2014- current.
- Vice-President of International Studies Association. TAMU International, May 2000.
- Technical Secretary of the Economic Strategic Planning Committee for the Central Region of Tamaulipas. Victoria, Mexico, 1999.
- Member of the Technical Council for Municipal Planning Development, August 1996.

## **Professional and University Citizenship**

- President of INFORMS DFW Chapter, 2018 - 2019
- Secretary and Founding Member of the Alliance of Mexican Alumni and Students, 2012 – 2014.
- Member of the National Network “Red of Talentos Mexicanos – Dallas”.
- Consultant services for the National Association of Developmental Education – Mathematics committee at Collin College, performing econometric and statistical analysis of the determinants of undergraduate success in developmental mathematics courses and future coursework, August 2012.