

Daniel Covarrubias, Ph.D.

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Education

Deusto Business School, University of Deusto Ph.D. Business Competitiveness and Economic Development	2011
Texas A&M International University Master of Arts in Political Science	2007
University of Texas at San Antonio Master in Business Administration	2002
Instituto Tecnológico y de Estudios Superiores de Monterrey Bachelors in Business Administration	2000

Professional Experience

Texas Center for Border Economic and Enterprise Development, Laredo, Texas <i>Director</i> I lead the Texas Center for Economic and Enterprise Development at the A.R. Sanchez, Jr. School of Business at Texas A&M International University (TAMIU). The Center provides support to private and public entities through research, data analytics, knowledge dissemination, and assistance with border and bi-national socio-economic development efforts. I manage external partnerships, secure grant funding, and coordinate with regional industry and government stakeholders. The Center hosts the TAMIU Logistechs Living Lab, a research program focused on improving the efficiency and competitiveness of cross-border trade and transportation through the use of exponential technologies.	2021 - Present
Center for Socioeconomic and Technological Innovation, Nuevo Laredo, Tamaulipas <i>Director</i> I founded and directed the Center for Socioeconomic and Technological Innovation for the City of Nuevo Laredo, Tamaulipas. The Center's purpose was to modernize and transform productive sectors by disseminating knowledge and technology across the business sector. I secured federal funding from Mexico's Ministry of Economy (PROSOFT) and cultivated partnerships with industry, government, and academic institutions to strengthen the competitive capacity of our cross-border region.	2016 -2021
Ministry of Economy, Government of Mexico, Mexico City, Mexico <i>Advisor to the Minister</i> I developed public policy analysis and frameworks on national and regional competitiveness, innovation, and industrial strategy (clusters, global value chains), and participated in the development of a national program to promote the IT sector (PROSOFT). I also analyzed and advanced strategy proposals to improve manufacturing services (Servitization) in Mexico, and assessed mechanisms for the Machine Tool Cluster to foster systemic improvements, with the ultimate goal of reducing import volumes in the automobile value chain.	2014 - 2016
Orkestra - Basque Institute of Competitiveness, San Sebastian, Spain <i>Researcher</i> I worked jointly with the group of researchers within the Territory, Innovation, and Clusters department of the institute. I developed research in the area of Cross-Border Regional Development, Regional Innovation Systems, Clusters and Territorial Policy, with a focus on the importance of establishing a social base (Social Capital/Social Innovation) in cross-border contexts to further competitiveness and economic development strategies.	2012 - 2014

Institute for Competitiveness and International Commerce, Nuevo Laredo, Tamps.

2009 - 2011

Director

I directed the operation of five departments of the City of Nuevo Laredo Municipal Government: Competitiveness, International Commerce, Economic Development and Employment, Tourism, and the ICCE Information and Research Center.

Secretary of Economic Development and Employment, Nuevo Laredo, Tamaulipas

2005 - 2007

Secretary

As Secretary of Economic Development and Employment for the City of Nuevo Laredo, I supervised the operations of five Economic Development departments: Industry, Commerce, Services, Small Business, and the Municipal Incubator.

Publications and Working Papers

Cedillo, M. Gaston, Covarrubias, J. Daniel, Flores-Franco, J. Eduardo (2024). Analytic model to mitigate the risk of road transportation cargo theft: A Physical Internet approach.

Computers & Industrial Engineering, Volume 190, ISSN 0360-8352, <https://doi.org/10.1016/j.cie.2024.110016>.

Cedillo, M. Gaston, Covarrubias, J. Daniel, et.al (2024). COVID-19 effects on the freight transportation systems in Mexico: A demand and supply shock analysis.

International Journal of Logistics Management vol. ahead-of-print, ISSN: 0957-4093, <https://doi.org/10.1108/IJLM-10-2023-0427>

Pina-Barcenas, Jared, Cedillo, M. Gaston, Covarrubias, J. Daniel (2023) A graph theory-based logistics approach to the digital transformation of freight transportation corridors management.

Mobile Networks and Applications. Springer Link. <https://doi.org/10.1007/s11036-023-02283-8>

Cedillo, M. Gaston, Covarrubias, J. Daniel, et.al (2023). COVID-19 effects on the freight transportation systems in Mexico: A demand and supply shock analysis.

Center for the Study of Western Hemispheric Trade Working Paper.

Covarrubias, J.Daniel, Cedillo, M. Gaston, Lozano, H, (2023). Smart Borders: The Key to more resilient International Trade and Cross-Border Transportation

Texas Center for Border Economic and Enterprise Development Working Paper.

Cedillo, M. Gaston, Covarrubias, J.Daniel, (2022) Physical Internet based transportation resilience to cargo theft risk.

Texas Center for Border Economic and Enterprise Development Working Paper.

Covarrubias, J.Daniel, Vela, J. Humberto, Urarte, Iñigo (2020) Innovando de Abajo hacia Arriba: El Caso de Estudio del Centro de Innovación Socioeconómica y Tecnológica desde una perspectiva de Investigación Acción.

Center for Socioeconomic and Technological Innovation - CIST Working Paper.

Covarrubias, J. Daniel. (2017) Analyzing how a Social Base Impacts Economic Development and Competitiveness Strategies in a Cross-Border Context: The Case of Region Laredo.

Journal of Borderland Studies. Association of Borderland Studies. Taylor and Francis.

<https://doi.org/10.1080/08865655.2016.1270168>

Books and Book Chapters

Villa, Juan Carlos, Covarrubias, J.Daniel, Vazquez, Andrea, Espinosa, Juan Carlos. (2025) 22: Infrastructure and trade in North America. In Anderson, Greg, Kukucha, Christopher J. (Ed.) The Elgar Companion to North American Trade and Integration (p.428). Elgar. ISBN 978-1035326570, <https://doi.org/10.4337/9781035326570>

Covarrubias, J.Daniel. (2024) Navigating the New Era of U.S.-Mexico Trade: Infrastructure, Technology, and the Future of Cross-Border Trade.

Texas Center. ISBN 979-8334054479, <https://amazon.com/dp/B0DFN14K1Y/>

Academic Presentations (Select)

Covarrubias, J. Daniel, Lozano, Heleodoro (2025, April). Employment Effects of Trade Policy Shifts in North American Supply Chains: A Multi-State Analysis of Transportation and Manufacturing Integration.

Presented at the Center for the Study of Western Hemispheric Trade 2025 Conference. Laredo, Texas.

Covarrubias, J. Daniel (2024, September) Logistechs e Inteligencia Artificial: El futuro ha llegado al Transporte y la Logística.

Presented at the Congreso Internacional de Logística y Cadenas de Suministro (CILOG) 2025 Conference. Laredo, Texas.

Covarrubias, J. Daniel (2024, April). From Globalization to Regionalization: Analysis of Texas Cross-Border Goods Movement. Presented at the Association for Borderlands Studies 2024 Conference. San Antonio, Texas. Covarrubias, J. Daniel (2024, February). From Globalization to Regionalization: Analysis of Texas Cross-Border Goods Movement.

Presented at the II French-Mexican-Texan Colloquium “Somos Vínculos”, TAMIU - Laredo, Texas.

Covarrubias, J. Daniel (2023, April). Smart Borders: The key to more resilient International Trade and Cross-Border Transportation.

Presented at the Association for Borderlands Studies 2023 Conference. Tempe, Arizona.

Cedillo, M. Gaston, Covarrubias, J. Daniel, et al. (2023, April). COVID-19 effects on the freight transportation systems in Mexico: A demand and supply shock analysis.

Presented at the Center for the Study of Western Hemispheric Trade 2023 Conference. Laredo, Texas.

Covarrubias, J. Daniel. (2018, April) El presente nos llama a innovar: el caso de estudio del Centro de Innovación Socioeconómica y Tecnológica de la Región de Nuevo Laredo-Laredo como impulsor de sistemas regionales de innovación transfronterizos.

Presented at the Association for Borderlands Studies 2018 Conference. San Antonio, Texas.

Alcalde, Henar, Covarrubias, J. Daniel, Irastorza, Olga, Kamp, Bart, Lorenz, Usue (2014, November)

Promoting Cross-Border Inter-clustering: The case of the Aquitaine - Euskadi Euroregion

Presented at the 17th Annual TCI Global Conference. Monterrey, Nuevo León, MX.

Covarrubias, J. Daniel. (2014, April) Highlighting the People Factor: Analyzing how a Social Base Impacts Economic Development and Competitiveness Strategies in a Cross-Border Context, Comparing Different Worlds - Aquitaine Euskadi Cross-Border Space and Region Laredo.

Presented at the Association for Borderlands Studies 2014 Conference “Borders as Signs of the Times!” Albuquerque, New Mexico.

Covarrubias, J. Daniel, Magro Edurne, Murciego Asier, Wilson James (2013, November)

Understanding the innovation policy mix and its implications for evaluation.

Presented at the “New Horizons - New challenges”, Evaluation of STI policies, instruments and organizations 2013 Conference. Vienna, Austria.

Covarrubias, J. Daniel. (2013, October) Bridging the Gap: Socially Integrating Cross-Border Regions, Comparing Different Worlds – Aquitaine Euskadi Cross-Border Space and Region Laredo.

Presented at the 8th Seminario Internacional en Políticas Regionales de Innovación. San Sebastián, España.

Covarrubias, J. Daniel. (2013, June) Highlighting the people factor, analyzing how a Social Base impacts Economic Development and Competitiveness strategies in a Cross-Border context - The case of the Aquitaine – Euskadi Cross-Border Space.

Presented at the 16th Uddevalla Symposium 2013 on: “Innovation, High-growth Entrepreneurship and Regional Development”. Kansas City, MO. USA.

Larrea, Miren, Estensoro, Miren, Covarrubias, J. Daniel. (2013, April) The Territorial Social Innovation Approach Perspective for Sustainable (Rural) Development Processes.

Presented at the Agderforskning - University of Agder (Norway) / Orkestra Workshop for Culture-based Rural Development Strategies. San Sebastián, España.

Wilson, James, Magro, Edurne, Covarrubias, J. Daniel, Murciego, Asier, (2012, November) ¿Cómo evaluar desde la complejidad? El caso de las políticas de cooperación para la innovación del País Vasco.

Presented at the Workshop for Policy Evaluation as a support mechanism for Policy Learning. San Sebastián, España.

Covarrubias, J. Daniel. (2012, October) Why a Social Base is necessary for implementing Economic Development and Competitiveness strategies in a Cross-Border Context: The case of Region Laredo.

Presented at the 15th TCI Annual Global Conference. País Vasco, España.

*** Winner of Most Inspiring Presentation Award.**

Other Publications (Select)

Perez-Batres Luis, Covarrubias, J. Daniel (2025), Laredo port prepares for \$10 trillion in new economic value by 2030
Op-Ed, San Antonio Business Journal

Covarrubias, J. Daniel (2025), The Infinity Loop: How Perpetual Uncertainty is becoming North America's New Trade Policy
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), Shared Security, Shared Prosperity: The Path Forward for North American Trade
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), Why-Not-AI? A New Litmus Test for Cross-Border Business
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), Port Laredo's World Trade Bridge: 25 Years Transforming North American Trade
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel, Perez-Batres Luis (2025), Reimagining North American integration — if opportunity doesn't knock, build a door
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), On Tariffs and Manufacturing
Op-Ed, San Antonio Business Journal

Covarrubias, J. Daniel (2025), Taxing Value Chains: Auto Tariffs in an Integrated North American Market
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), USMCA 2.0: A Trilateral Framework for Security, Technology, and Industrial Competitiveness
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), The Uncertainty Cost: How Tariff Threats Disrupt Markets Before Implementation
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), Beyond Reciprocity: Market Size and North America's Industrial Advantage
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), Price of Disruption: How New Tariffs Could Reshape North America's Busiest Land Port
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2025), The AI-Ready Workforce: Why Universities Must Lead the Charge
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), On the Edge of Transition: My Reflections on the Year Ahead for U.S.-Mexico Trade
Op-Ed, Rio Grande Guardian /Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), La relación comercial México-EU: desafíos ante el nuevo panorama político
Op-Ed, El Financiero

Covarrubias, J. Daniel (2024), The US-Mexico border's maritime gateway
Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), The Nearshoring Paradox: Why Trade Tells a Different Story Than Investment in Mexico
Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), A Border Champion: Honoring Gerry Schwebel's Legacy of Leadership and Vision
Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), Breaking the comfort trap: Why logistics SMEs must embrace logistechs to survive and thrive

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), Bridging the gap: New US-Mexico trade infrastructure

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2023), Addressing the U.S.-Mexico digital wall

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), From polls to ports: How México's election could transform trade

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), Crossing borders, connecting economies: Port Laredo's rise as America's top trade Gateway

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), From neighbors to partners: The evolution of U.S.-Mexico trade

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2024), Introducing 'Crossing Paths: Insights into U.S. International Trade'

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2023), Beyond 2023: Innovation and Digital Transformation as Pillars for Growth in 2024

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2023), Desarrollando líderes digitales: el nuevo horizonte de las escuelas de negocios

Articulo de Opinion, Latitudex Logistica y Comercio Exterior, Grupo DICEX

Covarrubias, J. Daniel (2023), Bridging the Digital Divide: Equipping Business School Students for the Future of Work

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2023), Modernizing cross-border trade infrastructure: A North American imperative for growth and security

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Covarrubias, J. Daniel (2023), El futuro del comercio transfronterizo: la construcción de una fuerza laboral centrada en la IA

Columna Invitada, T21

Covarrubias, J. Daniel (2023), The future of cross-border trade: Building an A.I.-centric workforce

Op-Ed, Laredo Morning Times, sec. LMT Business Journal

Funding and Grants

Project: Texas A&M International University Innovation Grant

Funding Institution: Texas A&M International University

Amount Awarded: \$50,000

Funding Period: 2024-2026

Role in Project: Principal Investigator

Project: Electric Truck Cross-Border Drayage Comparative Pilot Study at Laredo-Nuevo Laredo

Funding Institution: North American Development Bank (NADBANK)

Sub-award from Texas A&M Transportation Institute (TTI)

Amount Awarded: \$250,000

Funding Period: 2024-2025

Role in Project: Co-Principal Investigator

Project: Design and Implementation of a Bi-national Air Quality Measurement System at the Laredo, Texas/Nuevo Laredo, Tamaulipas Cross-Border Region

Funding Institution: North American Development Bank (NADBANK)

Sub-award from Texas A&M Transportation Institute (TTI)

Amount Awarded: \$150,000

Funding Period: 2023-2024

Role in Project: Co-Principal Investigator

Project: Accelerating Credentials Planning Grant
Funding Institution: Texas Higher Education Coordinating Board (THECB)
Amount Awarded: \$50,000
Funding Period: 2022
Role in Project: Principal Investigator

Project: Coahuila Innovacion 4.0 (Creation of an Industrial Innovation Center in Saltillo, Coahuila, MX.)
Funding Institution: Secretaria de Economia PROSOFT (Mexico Ministry of Economy)
Amount Awarded: \$7,000,000.00 MXP (354,679.50 USD)
Funding Period: 2018 - 2019
Role in Project: Leader

Project: Creation of an Industrial Innovation Center in Nuevo Laredo, Tamaulipas, MX.
Funding Institution: Secretaria de Economia PROSOFT (Mexico Ministry of Economy)
Amount Awarded: \$5,000,000.00 MXP (253,342.50 USD)
Funding Period: 2017 - 2019
Role in Project: Leader

Courses Taught

University: Texas A&M International University
Program: Master of Business Administration with a major in Management Information Systems and Data Analytics (MBA-MIS)
Course: 1. MIS-5365 Business Information Security (Cybersecurity)
2. MIS-5350 Information Systems Analysis
3.-MIS 5360 Management of Information Systems

Program: Bachelor of Business Administration with a major in Management Information Systems and Data Analytics (BBA-MIS)
1. MIS-4399-161 Issues in Information Systems (Digital Transformation)
2. MIS-3310-281 Management Information Systems

University: Deusto Business School
Program: Master in Competitiveness and Innovation
Module: Innovation and Competitiveness: Theory and Measurement
Courses: 1. Introduction to Cross-Border Cooperation, Competitiveness and Economic Development

Speaking Engagements (Select)

Panelist - Driving Growth: Clean and Efficient Mobility Catalyzes Economic Integration. August 27, 2025
Nadbank Summit 2025, San Antonio, TX.

Keynote - From Border Basics to Logistechs: Laredo's in the next era of cross-border logistics August 26, 2025
Laredo College's Global Logistics Center Lecture Series, Laredo, TX.

Keynote - Reimagining North American Economic Integration. August 13, 2025
RIO SOUTH TEXAS REGION Binational Auto Cluster, Laredo, TX.

Keynote - Hacia el T-MEC 2.0 July 24, 2025
Encuentro de Negocios INDEX Zona Costa, Tijuana, Mx.

Keynote - Reimaginando la Integracion Economica de America del Norte July 16, 2025
85 Congreso CAAAREM, CDMX, Mx.

Keynote - Reimagining North American Economic Integration. June 17, 2025
Reliance Partners 8th Annual Modernization of Cross-Border Trade, Laredo, TX.

Panelist - USMCA and North American Strategic Competitiveness. June 13, 2025
Washington International Trade Association (WITA), Virtual

Panelist - Brainstorming Dialogue: Navigating the New Era of U.S.-Mexico Trade Consulate of Mexico in Brownsville, Brownsville, TX.	June 6, 2025
Keynote - Reimagining North American Economic Integration: Toward USMCA 2.0 CONCAMIN Meeting, Laredo, TX.	May 15, 2025
Panelist - Seamless Trade, Secure Borders North Capital Meridian Diplomacy Forum, Washington, D.C..	April 23, 2025
Keynote - Reimagining North American Economic Integration: Toward USMCA 2.0 NASCO Continental Reunion, Dallas, Tx.	May 15, 2025
Keynote - 30 years of Integration at a Crossroads: Workforce Impacts & North America's Competitive Future Friends of COSTEP, McAllen, Tx.	March 26, 2025
Panelist - Experts Analyze Texas-México Trade Dynamics, Policy Shifts, and Economic Trends Lone Star Trade Summit, San Antonio, TX.	December 2, 2024
Keynote - Logistechs: Revolucionando los procesos en el comercio y la logística TradeHub Summit 2024, Ciudad de México, Mx.	September 25, 2024
Panelist - Innovation at the Border: Logistechs for Enhanced Cross-Border Trade 31st Pathways for Trade Symposium, Laredo, TX.	September 19, 2024
Host & Panelist - Helping Shape Cross-Border Development: Insights from U.S.-Mexico Border Research Centers CiLOG 2024 - International Congress on Logistics and Supply Chain, Laredo, TX. *Raised \$25,000+ in sponsorships from regional logistics companies.	September 11, 2024
Keynote Speaker - Inteligencia Artificial: El futuro ha llegado al Transporte y la Logística 2024 Foro Nacional del Transporte de Mercancías ANTP, Playa del Carmen, Mx.	July 12, 2024
Keynote Speaker - Economic Outlook Report Laredo Chamber of Commerce Vision 2024 Conference, Laredo, TX.	May 21, 2024
Keynote Speaker - Smart Borders: The Key to more resilient International Trade and Cross-Border transp. NASCO Continental Reunion - Monterrey, Mx.	April 30, 2024
Speaker - Nearshoring and Cross-Border Trade Trends El Paso Chamber of Commerce and Mexico Now Border Trade and Economic Forum - El Paso, TX.	March 13, 2024

Research Interests

Logistechs, Cross-Border Trade and Transportation, Economic Development, Territorial Innovation Models, Cross-Border Cooperation, and Innovation and Entrepreneurship

Service to Profession

ASTM International F49 Committee on Digital Supply Chain <i>Member</i>	2023 - Present
U.S. Customs and Border Protection (CBP) Commercial Customs Operations Advisory Committee's (COAC) Working Group on Cross-Border Recognition <i>Member</i>	2022 - 2025

Deusto University - Bulletin of Economic Studies <i>Member of the Editorial Board</i>	2021 - Present
National Academies of Sciences, Engineering, and Medicine, Transportation Research Board (TRB) Standing Committee on International Trade and Transportation <i>Member and Committee Research Coordinator</i>	2021 - 2025
U.S.-Mexico Foundation C26+ Smart Borders Working Group <i>Member</i>	2021 - Present
Association of Borderland Studies <i>Member and Executive Secretary, and Treasurer</i>	2013 - Present

University Service

TAMIU A.R. Sanchez, Jr. School of Business Transportation & Logistics Network Student Organization (Mentor)	2025 - Present
TAMIU Academic and Industry Readiness in Engineering and Sciences (AIRES) Incubatorship Advisory Group	2023 - Present
TAMIU A.R. Sanchez, Jr. School of Business Dean's Steering Committee	2021 - Present

Media Appearances (Select)

TAMIU director shares expertise at North Capital Meridian Diplomacy Forum in Washington D.C.
Various media outlets, April 23, 2025

TAMIU director delivers keynote on reimagining North American economic integration
Various media outlets covering NASCO Continental Reunion, April 2-4, 2025

TAMIU's Texas Center releases comprehensive analysis of North American trade integration
Various media outlets, February 2025

TAMIU director addresses U.S.-México trade dynamics at Lone Star Trade Summit
Various media outlets, December 2024

TAMIU director shares border economics expertise with the University of Tennessee.
Various media outlets, October 23, 2024

TAMIU director shares insights on Logistechs at TradeHub Summit 2024
Various media outlets, September 2024

TAMIU director presents new book on U.S.-México trade at CiLOG 2024
Various media outlets, September, 2024

Nearshoring and modernizing cross-border trade infrastructure
Spectrum News, Austin's Capital Tonight, August 1, 2023

TAMIU director attends Mexico City TradeHub summit on global trade
Laredo Morning Times, July 17, 2023

The Booming Texas Border Town at the Center of a Global Trade Shift
The Wall Street Journal, In-Depth Video Features, May 1, 2023

TAMIU director presents 'Smart Borders' presentation at Arizona conference
Laredo Morning Times, May 2, 2023

Certifications

Fundraising and Development Specialization, Coursera, University of California Davis Certificate of Completion	2025
Strategic Innovation, ESADE Business School Certificate of Completion	2021
Initiation and Sensibilization to Industry 4.0, TecNALIA Research and Innovation Certificate of Completion (16 hours)	2018
Intelligent Artificial Vision Systems, TecNALIA Research and Innovation Certificate of Completion (40 hours)	2018
Digitalization, IoT, Big Data and Data Analytics, TecNALIA Research and Innovation Certificate of Completion (40 hours)	2018
Cybersecurity, TecNALIA Research and Innovation Certificate of Completion (40 hours)	2018
Augmented Reality and Virtual Reality, TecNALIA Research and Innovation Certificate of Completion (40 hours)	2018
BUS ADM 2022 - 001 Keys To Successful Entrepreneurship, UC Berkeley Extension Certificate of Completion	2017
Microeconomics of Competitiveness (MOC), Orkestra - Basque Institute of Competitiveness/Harvard Institute for Strategy and Competitiveness Certificate of Completion	2012
Social Network Analysis, Coursera, University of Michigan Certificate of Completion	2012

Acknowledgments

TCI Network - The Competitiveness Institute Best Rated Speaker from Workshop Sessions	2013
15th Annual TCI Global Conference Most Inspiring Presentation Award	2012
Instituto Nacional para el Federalismo y Desarrollo Municipal Premio Nacional al Desarrollo Municipal	2010
Instituto Nacional para el Federalismo y Desarrollo Municipal Premio Nacional al Desarrollo Municipal	2009
Centro de Investigación y Docencia Económicas, A.C. Premio Gobierno y Gestión Local	2009
State of the World Forum Member of the Emerging Leaders Delegation	1999

Private Sector Experience

Climas, Servicios y Ductos de Nuevo Laredo S.A. de C.V., Nuevo Laredo, Tamaulipas General Manager	2007 - 2009 2001 - 2004
I oversaw the business administration of a small family-owned business.	