

Dr. Martín Lozano.

Curriculum Vitae. | *Updated:* June 25, 2021.

Contact.

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 GitHub  YouTube  WEB  Google Scholar  SSRN

Expertise.

Areas of expertise. Finance, Economics, Statistics, Data Science.

Computer skills. Proficient in R, \LaTeX and other languages like Octave, MATLAB, Weka, GGobi. Commercial software like E-Views, Stata, Gretl, SPSS, among others.

Research interests. Empirical asset pricing; beta and SDF pricing models and tests; financial econometrics; GMM estimation and inference; portfolio allocation models and performance; computational finance; data science applications in business.

Teaching interests. Introductory economics (microeconomics, macroeconomics), quantitative finance, computational finance with R, risk management, financial modeling, financial econometrics.

Experience.

Professor of finance. 2015 – current
Universidad de Monterrey (UEM). Department of Economics and Finance. México.

Post-doctoral research fellow. 2010 – 2012
Manchester Business School. Centre for the Analysis of Investment Risk. UK.

Pre-doctoral Marie Curie research fellow. 2007 – 2008
The University of Manchester. UK.
Supported by the Sixth European Community Framework Programme.

Research assistant. 2006 – 2007
Instituto Complutense de Estudios Internacionales (ICEI). Spain.
Collaborate on European research projects in areas such as innovation and technology policy using microdata.

Visiting PhD scholar. 2005 – 2006
University of the Basque Country, Universidad Complutense de Madrid, University Carlos III of Madrid. Spain.

Academic coordinator. 2002 – 2004
Universidad Virtual, Tecnológico de Monterrey.
Responsible for the delivery, maintenance and development of finance and accounting undergraduate courses.

Wharton Global Consulting Practicum consultant. 2001 – 2002
EGADE Business School, and the Wharton School of the University of Pennsylvania.
Develop the business plan for a Mexican company in the beverage industry to enter into the US market.

Publications.

1. *Portfolio performance of linear SDF models: An out-of-sample assessment. With Erwin Hansen and Massimo Guidolin. Quantitative Finance.* Vol. 18, No. 8, 1425–1436, 2018. <http://dx.doi.org/10.1080/14697688.2018.1429646>.

2. *Evaluating alternative methods for testing asset pricing models with historical data*. With Gonzalo Rubio. **Journal of Empirical Finance**. Volume 18, Issue 1, January 2011, Pages 136–146. 8 citations. <http://dx.doi.org/10.1016/j.jempfin.2010.05.005>
3. *Financial crisis: imbalances, irrationality and regulation*. Editorial for **Advances in Management**. February 2012. <http://ssrn.com/abstract=1965011> Listed on SSRN's top ten download list: Resource Financing Strategies: as of 12/11/2011.
4. Research assistance for: *Dividend Growth, Cash Flow and Discount Rate News*. Ian Garrett and Richard Priestley. **Journal of Financial and Quantitative Analysis**. Vol. 47, No. 5, Oct. 2012, pp. 1003–1028. <http://dx.doi.org/10.1017/S0022109012000427>
5. Proceedings: *The efficiency of the SDF and Beta methods at evaluating multi-factor asset-pricing models*. With Stuart Hyde and Ian Garrett. **Southwestern Finance Association 48th Annual Meeting Proceedings**. Oklahoma City, USA. 2009. Media:
6. *La industria del acero*. Suplemento Grupo Milenio. June 2016.

Working papers.

1. *Multifactor Empirical Asset Pricing Under Higher-Order Moment Variations*. 2020. With Massimo Guidolin, and Juan Arismendi Zambrano.
2. *Performance of asset allocation strategies in Europe: An out-of-sample assessment*. 2014. With Francisco Navarro. <http://ssrn.com/abstract=2474542>
3. *Portfolio choice in the presence of estimation error: A pricing model filter approach*. 2014. <http://ssrn.com/abstract=2476321>
4. *Trade-offs between efficiency and robustness in the empirical evaluation of asset pricing models*. 2011. With Stuart Hyde and Ian Garrett. <http://papers.ssrn.com/abstract=1754743> Listed on SSRN's top ten download list: Econometric & Statistical Methods, and Applied Econometric Modelling in Financial Economics: October 7, 2011 to December 6, 2011. 2 citations.
5. *Econometrics of asset pricing: methodological review and empirical exercise*. 2009. <http://papers.ssrn.com/abstract=1754762>

International conferences.

1. **International Conference of the French Finance Association**. Nantes, France. May 2021
Audencia Business School.
Multifactor empirical asset pricing under higher-order moment variations.
2. **Frontiers of Factor Investing**. UK. April 2020
Lancaster University Management School.
Multifactor empirical asset pricing under higher-order moment variations.
3. **World Congress of the Econometric Society**. Milan, Italy. August 2020
Bocconi University.
Multifactor empirical asset pricing under higher-order moment variations.
4. **Recent Developments in Financial Econometrics and Applications**. Australia. Jan. 2014
Deakin University.
Asset pricing applications.
5. **European Financial Management Association**. Reading, UK. June 2013
University of Reading. Henley Business School.
Portfolio performance of linear SDF models: an out-of-sample assessment.
6. **Eastern Finance Association Annual Meeting**. Washington D.C., USA. May 2009
Efficiency of the SDF and Beta methods at evaluating asset-pricing models.
7. **Southwestern Finance Association 48th Annual Meeting**. Oklahoma City, USA. Feb. 2009
Efficiency of the SDF and Beta methods at evaluating asset-pricing models.
8. **XVI Spanish Association of Finance Forum**. Barcelona, Spain. November 2008
ESADE Business School.

Efficiency of the SDF and Beta methods at evaluating asset-pricing models.

9. **XV Spanish Association of Finance Forum. Palma de Mallorca, Spain.** November 2007
Universitat de les Illes Balears.
Evaluating alternative methods for testing asset pricing models with historical data.

Research seminars.

1. **University of Liverpool. Management School Seminar Series. UK.** November 2019
Multifactor empirical asset pricing under higher-order moment variations.
2. **University College Dublin. Seminar Series. UK.** December 2019
Multifactor empirical asset pricing under higher-order moment variations.
3. **Instituto de Contadores Públicos de Nuevo León ICPNL. México.** July 2017
Portfolio choice in the presence of estimation error: A pricing model filter approach.
4. **Universidad de Monterrey. México.** June 2017
Portfolio choice in the presence of estimation error: A pricing model filter approach.
5. **Universitat de Barcelona. Riskcenter. Spain.** September 2012
Estimation of asset pricing models: parameter efficiency and implications for asset allocation.
6. **Stockholm University. School of Business. Sweden.** September 2011
Trade-offs between efficiency and robustness in the empirical evaluation of asset pricing models.
7. **Lancaster University. Management School. UK.** July 2011
Trade-offs between efficiency and robustness in the empirical evaluation of asset pricing models.
8. **Universidad de Castilla-La Mancha. Toledo, Spain.** August 2008
Finite sample properties of GMM asset pricing tests.
9. **Manchester Business School. Annual Doctoral Conference. UK.** May 2008
Tests of multi-factor pricing models and the consumption-based asset pricing.
10. **University Carlos III of Madrid. Spain.** April 2008
Finite sample properties of GMM asset pricing tests.
11. **Universidad de Navarra. Pamplona, Spain.** March 2008
Evaluation of asset-pricing models using historical data.
12. **Universitat de les Illes Balears. Palma de Mallorca, Spain.** February 2008
Evaluation of asset-pricing models using historical data.
13. **University of the Basque Country. Bilbao, Spain.** June 2007
Testing asset pricing models.
14. **Instituto Complutense de Análisis Económico. Madrid, Spain.** July 2007
Testing asset pricing models.
15. **University of Valencia. Spain.** May 2006
Testing asset pricing models.

Education: PhD.

PhD in Quantitative Finance. 2005 – 2010

University of the Basque Country. Spain.

Supervisor: Prof. Gonzalo Rubio (Universidad CEU Cardenal Herrera). Internal: Prof. Alfonso Novales (Universidad Complutense de Madrid). PhD committee members: Dr. María Victoria Esteban (Universidad del País Vasco); Prof. Ángel Pardo (Universidad de Valencia); Dr. Rosa Rodríguez (Universidad Carlos III de Madrid); External: Dr. Iñaki Rodríguez (University of Tromsø).

Doctor *Europaeus* mention. 2009

Several European universities.

Supporting external reports from: Prof. Stuart Hyde (Manchester Business School); Dr. Angélica González (University of Edinburgh); Prof. Richard Stehle (Humboldt University); Dr. Andreas Schrimpf (Aarhus University); Prof. Leopold Sögner (University of Vienna); Dr. Valerio Potì (Dublin City University);

Prof. Marcelo Fernandes (Queen Mary, University of London); Prof. Paul Söderlind (University of St. Gallen).

Education: Post-graduate.

Master Degree in Statistical Learning and Data Mining. UNED. Spain.	2019
Diploma University Expert in Statistical Learning and Data Mining. UNED. Spain.	2019
Diploma University Expert in Statistical Techniques for the Scientific Analysis of Data. UNED. Spain.	2017
Master Degree in Modern Applied Statistical Methods. UNED. Spain.	2016
Diploma University Expert in Advanced Methods of Applied Statistics. UNED. Spain.	2015
Advanced Studies in Quantitative Finance. Universidad Complutense de Madrid. Spain.	2005 – 2006
MSc Finance. EGADE Business School. México.	2000 – 2002
BS Economics. Tecnológico de Monterrey, Campus Monterrey. México.	1993–1997

Profesional training.

- Digital Humanities & Research Software Engineering Summer School.** 2021
The Alan Turing Institute. UK.
- Diseño de indicadores para el desarrollo social.** 2020
Consejo Nacional de Evaluación de la Política de Desarrollo Social. México.
- Applications of multi-level models to research policy and higher education studies.** 2020
RISIS (Research Infrastructure for Science and Innovation Policy Studies). Italy.
- Summer School on Data Science for Studying Science, Technology and Innovation.** 2019
RISIS. Strathclyde Business School, Glasgow. UK.
- Proyectos de Inversión en Bienes Inmobiliarios.** 2019
Riskmathics. México.
- Faculty training.** 2015 – 2016
Universidad de Monterrey (UDEM). México.
- Faculty training.** 2015
University of Liverpool's Management School. UK.
- Faculty training.** 2015
University of Roehampton, London Online. UK.
- Course on Panel Data Analysis.** 2007
Instituto de Estudios Fiscales. Spain.
- Teaching techniques: PBL, POL, collaborative learning, case-based method.** 1999 – 2002
Tecnológico de Monterrey, Campus Monterrey. México.
- Ethics across the curriculum.** 1999
Loyola University Chicago.
- Diploma in Economic and Financial Analysis.** 1998
Asociación Mexicana de Intermediarios Bursátiles, A.C. México.

✓ Certifications in R.

DataCamp Courses (42): Introduction to R; Introduction to Importing Data in R; Introduction to R for Finance; Introduction to Writing Functions in R; Importing and Managing Financial Data in R; Intermediate R for Finance; Data Science for Everyone; Foundations of Probability in R; Time Series Analysis in R; Introduction to the Tidyverse; Credit Risk Modeling in R; Manipulating Time Series Data with `xts` and `zoo` in R; Intermediate R; Data Manipulation with `dplyr`; Joining Data with `dplyr`; Introduction to Data Visualization with `ggplot2`; Intermediate Data Visualization with `ggplot2`; Intermediate Importing Data in R; Data Cleaning in R; Working with Data in the Tidyverse; Working with Dates and Times in R; Exploratory Data Analysis in R; Case Study Exploratory Data Analysis in R; Correlation and Regression in R; Supervised Learning in R Classification; Supervised Learning in R: Regression; Unsupervised Learning in R; Cluster Analysis in R; Machine Learning with `caret` in R; Data Engineering for Everyone; ARIMA Models in R; Forecasting in R; Visualizing Time Series Data in R; Case Studies: Manipulating Time Series Data in R; Introduction to Portfolio Analysis in R; Intermediate Portfolio Analysis in R; Bond Valuation and Analysis in R; Quantitative Risk Management in R; Financial Trading in R; Equity Valuation in R; Life Insurance Products Valuation in R; GARCH Models in R.

DataCamp Skill Tracks (6): Importing & Cleaning Data with R (4 courses); Finance Basics with R (4 courses); Machine Learning Fundamentals in R (4 courses); Time Series with R (6 courses); Finance Fundamentals in R (6 courses); Applied Finance in R (7 courses).

DataCamp Career Tracks (2): Data Scientist with R (19 courses); Quantitative Analyst with R (15 courses).

✿ Service to the academia.

Reviewer: Quarterly Review of Economics and Finance (since 2011); Journal of Banking and Finance (since 2010).

Editor: Associate Editor Journal of Accounting, Finance and Economics (since 2014); Munich Paper of RePEc Archive MPRA (2010, 2011); Advances in Management (since 2011).

Scientific and academic committees: Examiner for MScs and PG Diplomas in Financial and Management Studies University of London International Programmes (2012, 2015, 2016). Examination panel of biannual Finance PhD reviews Manchester Business School (06/2011 and 06/2012). Eastern Finance Association (2009, 2010 and 2012); Midwest Finance Association (2009 and 2010); Southwestern Finance Association (Annual Meetings: 48th and 49th).

✿ Awards & honors.

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|---|----------------|
| 1. UDEM. Member of the research committee CIDINE. | 2015 – current |
| 2. UDEM. President of the academia of finance. | 2016 – 2019 |
| 3. UDEM. Claustro universitario X. | 2017 – 2018 |
| 4. UDEM. Finalist <i>Ser Sobresaliente 2016</i> award. | 2016 |
| 5. Sistema de Expertos de Educación Ejecutiva del Tecnológico de Monterrey. | 2015 – 2020 |
| 6. Listed on SSRN's top ten download list. | 2011 |
| 7. European Community Framework Programme Marie Curie fellowship. UK. | 2007 – 2008 |
| 8. Basque Government mobility grant. Spain. | 2007 |
| 9. University of the Basque Country doctoral fellowship. Spain. | 2005 – 2007 |
| 10. BBVA Foundation doctoral fellowship. Spain. | 2004 – 2005 |
| 11. Universidad Virtual, Tecnológico de Monterrey. Academic senator member: | 2003 |
| 12. EGADE Business School MSc fellowship. México. | 2000 – 2002 |

⚙️ Design course assessment material.

University of London, School of Oriental and African Studies.
MSc in Quantitative Finance and MSc in Economic Policy.

2015 – 2021

1. Derivatives (2015 – 2020).
2. Financial Engineering (2019 – 2021).
3. Banking and Capital Markets (2019 – 2021).

👥 Teaching: Postgraduate.

SOAS University of London, Dep. of Financial and Management Studies. UK. 2012 – current
Finance and Risk Management in the Global Economy (summer school 2020, as Director of Financial Modelling with R); Banking & Capital Markets (2016, 2018, 2019, 2021); Econometric Analysis & Applications (2016 – 2019, 2021); Risk Management: Principles & Applications (2012, 2014 – 2017, 2019); Econometric Principles & Data Analysis (2012 – 2015, 2017, 2019); Derivatives (2015 – 2016); Risk Management in the Global Economy – MOOC FutureLearn platform (2016); Independent Study Project (2019, 2021); Financial Econometrics (2019, 2021); Financial Engineering (2021).

Alliance Manchester Business School. UK.

2010 – 2018

Individual Projects 2010 – 2011 and 2014-15. Research Methods 2011 – 2012. Group Project 2013 – 2014. Global MBA Project 2014-15 and 2015-16. Live Business Project 2018 GMBA.

Universidad de Monterrey (UDEM). México.

2015

Financial Project Evaluation.

University of Liverpool, Management School. UK.

2015

Economics of Oil, Gas & Energy.

Manchester Business School, (Finance PhD). UK.

2011 – 2012

Three sessions of Advanced Finance Research Seminar I.

Tecnológico de Monterrey. México.

2005 – 2009

Fundamentals of Managerial Finance (2008); Managerial Economics (2009); Economics for Decision Taking (2010); Economic Environment (2009); Economics of the Firm (2005).

👥 Teaching: Undergraduate.

Universidad de Monterrey (with applications in R). México.

2015 – 2021

Topics in Finance (2015 – 2019); Econometrics for Financial Markets (2016 – 2021); Financial Engineering (2016 – 2021); Financial Project Evaluation (2015); Financial Structure and Cost of Capital (2015, 2017); Financial Risk Management (2015 – 2021); Financial Project Evaluation (2015).

Tecnológico de Monterrey (Most of them in English). México.

1995 – 2015

Programming and financial modeling; Economics for International Business (2014, 2018, 2019); Competitive Intelligence and Geo-economics (2013 – 2019); Innovation Project on Regional Businesses (2015 – 2019); FDI and Country Risk (2015); Firm Economics (2015, 2018, 2019); Microeconomics (2015); Macroeconomics (2014, 2019); Financial Sources (2012, 2013); Financial Engineering (2003, 2004, 2012, 2013); Project and Firm Valuation (2011); Investments; Risk Evaluation in Financial Markets (2002 – 2004); Foreign Investment (2002 – 2004); Financial Economics (2002 – 2004); Financial Derivatives (2002 – 2004); Statistics (2002); International Finance (1999 – 2002); Econometrics (TA 1997); Microeconomic Theory (TA 1995 – 1998).

The University of Manchester. Economics Department. UK.

2011 – 2012

Business Economics I; Business Economics II.

Universidad Autónoma de Nuevo León. México.

2001

Economic Development.

Teaching: Executive training.

Finance for non-financiers (online and face-to-face formats 2012 – 2017, 2019); Mexican fiscal reform 2014; entrepreneurial seminar 2014; corporate training in finance for enterprises such as Kimberly-Clark (2013), Stoneridge (2013), Magna (2014, 2017), COPARMEX (2014), Linamar (2015, 10 groups), Ternium (2021).

Supervision: PhD.

The University of Manchester. PhD Finance.

2010 – 2012

1. *An economic evaluation of linear SDF models: An out-of-sample assessment.* Erwin Hansen (currently professor at the University of Chile). Co-supervision.

Supervision: MSc (28).

London School of Business & Finance. MSc Finance & Risk Management.

2012

1. *Asset pricing anomalies and stock return predictability: How relevant are they for the Swiss Stock market?* Julian Mittmann. Co-supervision. 2012.

University of London, School of Oriental and African Studies.

2012 – current

MSc in Quantitative Finance and MSc in Economic Policy.

2. Saori Yamaguchi. MSc in Quantitative Finance. 2021.
3. *Predicting sector volatility with GARCH models and artificial neural networks.* Curtis Nybo. 2020. MSc in Quantitative Finance.
4. *Analysis and Monitor Retail Credit Risk using Machine Learning.* Jin Wang. MSc in Quantitative Finance. 2020.
5. *Determinants of the UK current account: a NARDL approach.* Laura Thomson. MSc in Quantitative Finance. 2019. MSc Finance (Economic Policy).
6. *Determinants of investor choice among collective investment schemes: The South African context re-examined.* Inthiran Moodley. 2019. MSc in Quantitative Finance.
7. *Financial Regulation and Market Liquidity in the US: A Literature Review and Empirical Approach.* Edward Price. 2017. MSc Finance (Economic Policy).
8. *Incorporating conditional variance methods into internal models used to calculate regulatory capital requirements for market risk under Basel regulations.* Thomas Zellerer. 2016. MSc in Quantitative Finance.
9. *Is the Irish property market contagious or simply interdependent?* Norah Daly. 2015. MSc in Quantitative Finance.
10. *British business in El Salvador.* Zoë Rowland Smith. 2012. MSc in Economic Policy.

The University of Manchester. MSc Finance.

2011 – 2012

11. *Short-run investment advice and portfolio performance during economic cycles.* Yu Wang. 2012.
12. *Empirical evidence of the behaviour of stock volatility with real economic changes – A mean variance frontier perspective.* Linda Anna John. 2012.
13. *An exploration about risk diversification possibilities in the U.S.* Kush Arora. 2012.
14. *The role of return predictability in the accuracy of short-run investor advice.* Alexey Dorokhov. 2012.
15. *Industry dynamics and the momentum anomaly.* Jr-Wei, Kao. 2011.
16. *Food industry performance over business cycle on the US market.* Lin Wen. 2011.
17. *Advice to global investors about international portfolio diversification.* Meili Jiang. 2011.
18. *Testing the generalized method of moments (GMM) with US industries.* Mohammed Ali. 2011.

19. *Explaining the industry-based momentum anomaly in the US market – The role of momentum factor and autocorrelation.* Yu Zhang. 2011.
20. *The role of business cycles in the determination of industry portfolios in the US.* Jingsi Shen. 2011.

Universidad Complutense de Madrid.

2012 – 2017

MSc in Quantitative Finance and Banking.

21. *Exploration of properties of the implicit stochastic discount factor.* Marc Pallarés García. 2017.
22. *The role of copulas in the characterization of counterparty credit risk.* Norma Angélica Bautista Luna. 2017.
23. *Mean-variance asset allocation revisited.* David Tarin Bernad. 2017.
24. *Out-of-sample performance of investment strategies: A dynamic evaluation.* Guzmán Hernández Hernández. 2014.
25. *Out-of-sample performance of mean-variance strategies: Is active portfolio management worth the effort in Europe?* Francisco J. Navarro Sánchez. 2013.
26. *Intertemporal optimal demands for bonds and industry portfolios.* Pedro Antonio da Silva Faria. 2013.
27. *Aplicación empírica de las medidas mentales y carteras eficientes.* Boris Castro Guevara. 2012.
28. *Evolución temporal de la frontera media-varianza y su relación con la economía real.* Ana María Rivera Serrano. 2012.

Supervision: MBA (17).

The University of Manchester. Full-Time MBA.

2012

1. *Not for Profit MBA Project.* Jorge Alvarez, Adriana Castellares, Kelly Higgins, Niyati Jhalaria, Siannat Panassorn.

The University of Manchester. Global MBA.

2012 – 2018

2. *Financial evaluation: A new treatment for acute myeloid leukemia patients.* Jie Zhang, Jie Fang, Yanfei Pan, Jufang Qian, Yiqing Guan, Xinshu Xu. 2018.
3. *Funding Models for Marginal Oil Fields (MOFs) Oil Exploration and Production in Nigeria: Case Study of the Umusadege Cluster Tigers.* Harrison Ibagere. 2016.
4. *Financial institutions before and after the 2008 global financial crisis.* Viktoriia Glazneva, Bukola Majekodunmi, Nigel Aldcroft, Venugopal Boravellyayyanna, Lynette C. Musonda. 2016.
5. *A demand-side assessment of Dubai M/SME finance needs and the creation of a risk mitigation tool to improve funding access.* Toni Arndell, Alex Carter, Martin JV Hughes, Eric Leung, Bradley Manser, Derek Singleton. 2015.
6. *Post-IPO performance of listed companies in Singapore – Short run and long run.* Hnin Yi Thet. 2014.
7. *A response to the credit challenges confronting SMEs in Australia's post-GFC climate of inflated property prices.* Francesco Ceravolo. 2013.
8. *An analysis of the adequacy of the risk management structure and practices in the Bank of Nova Scotia Jamaica Limited.* Frederick Green. 2013.
9. *Instruments in managing cross border M&A cost and their applications in Chinese outbound transactions.* Yang An. 2013.
10. *Study of efficiency of the Nigerian capital market and the implications for investors.* Ameen Akeem Alaba. 2012.
11. *The Jamaica Debt Exchange – How has the JDX affected financial institutions and pension funds?* Carla Neisha Thomas. 2012.
12. *Transforming BG – Strategy formulation and implementation in the context of a family business.* Fazly Muhammed Faledeen. 2012.
13. *Challenges faced by the investment entities in the Gulf Cooperation Council (GCC) in the recent financial crisis, reasons and the way forward.* Moataz Bellah Abd Elbaset Hegab. 2012.
14. *Islamic finance – The concealed resilient architecture.* Mohamed El Ashmawy. 2012.

15. *An evaluation of Chinese companies listed on the Singapore Stock Exchange*. Stephen Chiew Hung Tan. 2012.
16. *The causal factors of commercial bank distress in Nigeria*. Emmanuel Duru. 2012.
17. *The Nigerian banks recapitalization: Impacts on the value creation and risks*. Ojekunle Ibrahim Olakunle. 2012.

👁 Supervision: Undergraduate (30).

Universidad de Monterrey (UDEM).

2015 – 2021

Finance, accounting and economics degrees.

1. Guillermo Maldonado Villanueva, Mariana Guadalupe Gauna Escalera, Daniela Villarreal Amparán, Katya Villarreal Elizondo. 2021.
2. Mauricio Hernández García, Enrique Fernando Higuera Nafarrate, Carlos Enrique Echavarría Aguilar, Héctor Guillermo González Treviño. 2021.
3. Víctor Arnulfo González Campos, Carolina Villarreal Chaccourt, Fernando Chapa Guzmán, Montserrat González Cantú. 2021.
4. *Reference portfolio optimization for retirement in México*. Alejandra Barradas Álvarez, Alejandro Flores Gaytán, Andrea Gutiérrez Campos, Ivanna Garza Villarreal. 2021.
5. *Determinantes socioeconómicos del logro académico en la prueba pisa 2018: un análisis de regresión multinivel cuantílica para el caso de México*. Daniela Paola García Cruz, Katia Flores García, Norma Patricia Rodríguez Garza, Salvador de Jesús Ramos Rivera. 2020.
6. *La inversión en México y sus estados*. Carolina Mata Degollado, Alan Estrada Sáenz, Andrea García Puentes, Bárbara De la Garza Aguiñaga. 2020.
7. *Dynamic estimation of corporate bond yields based on the credit risk Merton model: practical implications for Mexican public firms*. María Fernanda Alanís Adame, Ana Daniella Martínez Medina, Mauro Lozano Trujillo. 2020.
8. Financial risk analysis for Axtel Corp: contributions to economic literature and recommendations for the company. Javier Cázares Salinas, Regina Marmolejo Torres. 2020.
9. *Credit risk*. Paola Alejandra Arizpe Flores, Pamela Alejandra Salinas Delgado, Adrián Delgadillo Miranda, José Marcelo Rosiles Cortés. 2020.
10. *Text mining and finance applications*. Aurelio Herrera Alonso, Juan Antonio Chapa Guzmán, Paulina Sarahí González Martínez, David Alejandro Almaguer Galván. 2020.
11. *Estrategias de inversión automatizadas basadas en violaciones de la paridad put-call*. Marijose Morales Lozano, María Fernanda González Espinoza, Florencia Ferado Calleros, Esteban Daniel Cauch Montes. 2020.
12. *Do irrational investment decisions create value? A tale of 101 artificially created investors*. Andrea Madero Acuña, Franklin R. Garza Tuñón, Daniela Valdez Rodríguez, Valeria Martínez Zambrano. 2019.
13. *How trustworthy are robo-advisors to take financial investment decisions?* María Laura Ruiz Peinado, Ana Victoria Garza Montemayor, Ana Fernanda Marroquín Leal, Jorge Alejandro Deux Guerra Saldívar. 2019.
14. *A big data approach for non-standardized weather derivatives in the context of insurtech for the Mexican agricultural sector*. Melissa Cavazos De la Rosa, Mariana Yépiz Ojeda, Verónica Daniela Briones Reyes. 2019.
15. *Sistema de control interno para empresas del sector inmobiliario en México en el contexto de la Ley Federal para la Prevención e Identificación de Operaciones con Recursos de Procedencia Ilícita*. Estefanía Huerta Ocañas, Maximiliano Nienow González, Alejandro Emmanuel Garza Gauna. 2019.
16. *Determinants of attraction In Mexico's foreign direct investment and their capacity to generate economic growth: The case of profit reinvestment*. Osvaldo Delgado, Héctor Valdés Ramones, Jorge Armando Espinal Landaverde, André González. 2019.
17. *Characteristics of the company and macroeconomic variables as determinants of the financial ratios and*

- multiples of Mexican public companies: Implications for the improvement of the fundamental analysis.* Marcela Cristina Beltrán Díaz, Juan Uriel Sarmiento Cordero, Marco Antonio Muhlia Sánchez, Marco Alejandro Rodríguez Torres. 2019.
18. *Applying finance and statistics to explain and unveil the poverty determinants in Mexican municipalities.* Hugo Arnoldo Oliva Castillo, Lucía del Carmen Chávez De la Garza, Javier Eugenio Garza Martínez, Kahlid Marcelo García Adam. 2018.
 19. *Portfolios of individual stocks versus portfolios of investment strategies: a machine learning approach.* Priscila Judith Huerta Sánchez, Katia Gómez Sagui, Martín Murillo Varona, Oscar David Elizondo Espinosa. 2018.
 20. *Cross-country determinants of corruption and implications for economic policy.* Ana Sofía Villarreal Reyes, Mariana Flores, Ignacio Sánchez Paoli, Mauricio Rumbaut Canales. 2018.
 21. *A proposal for a credit risk metric for private firms.* Kareeme Yuvisela Dávila Cisneros, Melissa Montserrat Copado López, Marco Antonio Infante Rodríguez, Juan Pablo Barradas. 2018.
 22. *Introducing the weighted forward-looking volatility index: construction and empirical application.* Patricia Perches Carrillo, Liliana Juárez González, Elena Gaitán Álvarez, Iris Giovanna Masante Muñoz. 2017.
 23. *An innovative credit risk estimation: implications for the credit risk rating market.* Regina Marcela Marta Varela, María Fernanda Herrera Quiroga, Marcelo Adrián Pérez Ayala, Juan Pablo González Martínez. 2017.
 24. *Contraste de anomalías en el mercado mexicano: Implicaciones para el inversionista.* Daniela Castillo Gutiérrez, María Begoña Domínguez Ortega, Sonia María Leal Cárcamo, Mariana Itzel De la Rosa Reyes. 2017. Presented at: 1er. Coloquio de Jóvenes Investigadores: Gestión de la Innovación para el Desarrollo Sostenible de los Negocios 2017.
 25. *Competitiveness patterns in Mexican microenterprises: Implications for credit risk models.* Itziar Olóriz De la Garza, Armando Víctor González Valdés, Jorge Edgardo Sánchez Garza, Pedro Cedillo Martínez. 2017.
 26. *Impact on the US monetary policy on Mexican investment strategies.* Karen Beatriz Montoya Ortiz, Iris Aide Salinas Martínez, Elías Castro Flores, José Valero. 2016.
 27. *Realized performance of investment preferences: The case of home bias puzzle conditioned on exchange rate volatility.* Magaly Carolina Pérez Martínez, Alejandra García Villarreal, Alejandra Prezas Martínez, Christopher Ledezma González. 2016.
 28. Tutor for the honors program in leadership. Magaly Carolina Pérez Martínez. 2016.
 29. *Trends and analysis of the incorporation of the peer-to-peer markets in the economic sectors of México.* Gabriela Romeroll Angulo, Cynthia Alejandra De la Vega Oates, Dulce María Pérez Acosta, Marco Antonio Hernández Díaz. 2016.
 30. *Performance evaluation of investment strategies based on automated technical analysis algorithms.* Carlos Andrés Gutiérrez Mendivil, Danya Cecilia Martínez Ramírez, Paulina Torres Treviño, Ana María Barrera Portillo. 2016.

Free time.

I love art as the expression of human creativity and imagination. I spend some free time playing my Yamaha digital piano. I also used to be an active keyboardist, piano player, and orchestra director. Most of my experience in this field has been as a musician at live concerts in Mexico and Europe, piano solo concerts, and musicals organized by the Tecnológico de Monterrey for about a decade.

I like mostly Spanish painters like Velázquez, Goya, Dalí, Picasso among others. I also like the music of Chick Corea, Wynton Marsalis, Paco de Lucía, among others.