

CARLOS VLADIMIR RODRÍGUEZ-CABALLERO

CONTACT INFORMATION

ADDRESS: Department of Statistics. Instituto Tecnológico Autónomo de México. (ITAM)
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RESEARCH INTERESTS

1. Statistical inference on time series econometrics.
2. Modelling of persistence (Long memory models).
3. Panel data models and Dynamic Factor models.
4. Applied studies (mostly in finances, climate and macroeconomics).

EDUCATION

2013-2016	PhD in ECONOMICS AND BUSINESS ECONOMICS, School of Business and Social Science. Aarhus University Center for Research in Econometric Analysis of Time Series (CREATES) PHD DISSERTATION: <i>On factor analysis with long-range dependence.</i> (File) ADVISOR: <i>Niels Haldrup.</i>
2009-2011	M.Sc. in ECONOMICS (Econometrics) Grade awarded with honors 'Summa Cum Laude'. Universidad de Guanajuato DISSERTATION: <i>Ensayos sobre la Granger Causalidad.</i> (File) ADVISOR: <i>Daniel Ventosa Santaullària.</i>
2001-2005	B.Sc. in ACTUARIAL SCIENCE Facultad de Ciencias Universidad Nacional Autónoma de México DISSERTATION: <i>Inferencia Bayesiana para la volatilidad en el modelo Black & Scholes.</i> (File) ADVISORS: <i>Alejandro Villagrán Hernández and Ramsés Humberto Mena Chávez.</i>

ACADEMIC EXPERIENCE

<i>From</i> <i>Aug 2023</i>	Associate Professor (Granted Tenure). INSTITUTO TECNOLÓGICO AUTÓNOMO DE MÉXICO (ITAM). DEPARTMENT OF STATISTICS. Mexico City, Mexico.
<i>Aug 2018</i> <i>July 2023</i>	Assistant Professor (on Tenure track). INSTITUTO TECNOLÓGICO AUTÓNOMO DE MÉXICO (ITAM). DEPARTMENT OF STATISTICS. Mexico City, Mexico.
<i>Sep 2017</i> <i>July 2018</i>	Assistant Professor of Econometrics (on Tenure track). UNIVERSIDAD CARLOS III DE MADRID. DEPARTMENT OF STATISTICS. Madrid, Spain.

<i>Jan 2017</i>	Postdoctoral Researcher.
<i>August 2017</i>	UNIVERSIDAD CARLOS III DE MADRID. DEPARTMENT OF STATISTICS. Madrid, Spain.
<i>Sep 2016</i>	Research Assistant. AARHUS UNIVERSITY.
<i>Nov 2016</i>	CENTER FOR RESEARCH IN ECONOMETRIC ANALYSIS OF TIME SERIES. Aarhus, Denmark.
<i>Aug 2016</i>	PhD Employee.
<i>Sept 2013</i>	CENTER FOR RESEARCH IN ECONOMETRIC ANALYSIS OF TIME SERIES. AARHUS UNIVERSITY and <i>Danish National Research Foundation</i> .
<i>From 2011-2012</i>	Lecturer (Not eligible for tenure. No research obligations). FACULTAD DE CIENCIAS, UNAM. MÉXICO
<i>2013 (3 months)</i>	Teaching Assistant. CIDE. MÉXICO
<i>From 2009-2010</i>	Teaching Assistant. DEPARTAMENTO DE ECONOMÍA, UNIVERSIDAD DE GUANAJUATO. MÉXICO
<i>From 2004-2009 (intermittently)</i>	Lecturer (Not eligible for tenure. No research obligations). FACULTAD DE CIENCIAS, UNAM. MÉXICO

AFFILIATIONS

<i>Nov 16</i>	Research Fellow. AARHUS UNIVERSITY.
<i>Dec 22</i>	CENTER FOR RESEARCH IN ECONOMETRIC ANALYSIS OF TIME SERIES. Aarhus, Denmark.

PROFESSIONAL EXPERIENCE (NON-ACADEMIC)

<i>Apr 2012</i>	Subdirector. SANTANDER PRIVATE BANKING, Mexico City.
<i>Mar 2013</i>	<i>Statistical Models and Methodology. Marketing Inteligence.</i>
<i>Sep 2011</i>	Credit Risk Manager. MICROFINANCIERA CRECIENDO, Mexico City.
<i>Feb 2012</i>	<i>Risk.</i>
<i>Jan 2009</i>	Credit Risk Manager. BANCO FÁCIL, Mexico City.
<i>Mar 2007</i>	<i>Risk Management.</i>
<i>Feb 2007</i>	Credit Risk Analyst. HSBC HOLDING, Mexico City.
<i>Feb 2006</i>	<i>Risk Management.</i>
<i>Feb 2006</i>	Analyst. MARKETING GROUP, Mexico City.
<i>Sep 2005</i>	<i>Analytics.</i>

RESEARCH CONSULTANCY

<i>2021-2022</i>	Interamerican Development Bank. Evaluación de la Fundación Camino a casa.
<i>2020</i>	Interamerican Development Bank. Gender equality on female labor participation.
<i>2019</i>	Interamerican Development Bank. On remittances payments through central banks.

ARTICLES

- (18) Caporin, M., & Rodríguez-Caballero, C. V., & Ruiz, E. (2024). **The Factor Structure of Exchange Rates Volatility: Global and Intermittent Factors.** Empirical Economics. ([Link](#))
- (17) López-Marmolejo, A. & Rodríguez-Caballero, C.V. (2023). **Assessing the effect of gender-related legal reforms on female labour participation and GDP per capita in the Central American region.** Regional Statistics. Vol. 13. No. 3. ([Link](#))
- (16) Ergemen, Y.E & Rodríguez-Caballero, C.V. (2023). **Estimation of a Dynamic Multi-Level Factor Model with Possible Long-Range Dependence.** International Journal of Forecasting, Volume 39, Issue 1, Pages 405-430. ([Link](#))
- (15) Prados de la Escosura, L & Rodríguez-Caballero, C.V. (2022). **War, pandemics, and modern economic growth in Europe.** Explorations in Economic History. Volume 86, 101467. ([Link](#))
- (14) Rodríguez-Caballero, C.V. & Villanueva-Domínguez, M. (2022). **Predicting Cryptocurrency Crash Dates.** Empirical Economics, 63, 2855–2873. ([Link](#))
- (13) Rodríguez-Caballero, C.V. & Vera-Valdés, E. (2021) **Air pollution and mobility, what carries COVID19?** Econometrics, 9, 37. ([Link](#))
- (12) López-Marmolejo, A. , Rodríguez-Caballero, C.V. & Ventosa-Santaulària, D. (2021) **Remittances at record highs in Latin America: Time to revisit the Dutch disease** Economics Bulletin, Vol. 41 No. 3 pp. 2133-2146 ([Link](#))
- (11) Vera-Valdés, E. & Rodríguez-Caballero, C.V. (2021) **Air Pollution and Mobility in the Mexico City Metropolitan Area in Times of COVID-19.** Atmósfera, 36(2), 343-354. ([Link](#))
- (10) Cataño, D.H. & Rodríguez-Caballero, C. V. & Chiann, C & Peña, D (2021). **Wavelet Estimation for Factor Models with Time-Varying Loadings.** International Journal of Wavelets, Multiresolution and Information Processing, 20-01-2150033. ([Link](#))
- (9) Rodríguez-Caballero, C. V. (2021). **Energy consumption and GDP: a panel data analysis with multi-level cross-sectional dependence.** Econometrics and Statistics, Vol.23, Pp. 128-146. ([Link](#))
- (8) Rodríguez-Caballero, C. V., & Vera-Valdés, J. E. (2020). **Long-lasting economic effects of pandemics: Evidence on growth and unemployment.** Econometrics, 8(3), 37. ([Link](#))
- (7) Rodríguez-Caballero, C. V., & Caporin, M. (2019). **A multilevel factor approach for the analysis of CDS commonality and risk contribution.** Journal of International Financial Markets, Institutions and Money, 63, 101144. ([Link](#))
- (6) Rodríguez-Caballero, C. V., & Ventosa-Santaulària, D. (2017). **Energy-growth long-term relationship under structural breaks. Evidence from Canada, 17 Latin American economies and the USA.** Energy Economics, 61, 121-134. ([Link](#))

- (5) Ergemen, Y. E., Haldrup, N., & Rodríguez-Caballero, C. V. (2016). **Common long-range dependence in a panel of hourly Nord Pool electricity prices and loads.** Energy Economics, 60, 79-96.
[\(Link\)](#)
- (4) Rodríguez-Caballero, C. V., & Knapik, O. (2014). **Bayesian log-periodic model for financial crashes.** The European Physical Journal B, 87(10), 1-14.
[\(Link\)](#)
- (3) Rodríguez-Caballero, C. V., & Ventosa-Santaulària, D. (2014). **Granger causality and unit roots.** Journal of Statistical and Econometric Methods, 3(1), 97-114.
[\(Link\)](#)
- (2) Ventosa-Santularia, D., & Rodríguez-Caballero, C. V. (2013). **Polynomial regressions and nonsense inference.** Econometrics, 1(3), 236-248.
[\(Link\)](#)
- (1) Espin-García, O., & Rodríguez-Caballero, C. V. (2013). **Metodología para un scoring de clientes sin referencias crediticias.** Cuadernos de economía, 32(59), 137-162.
[\(Link\)](#)

BOOK AND ARTICLES IN BOOKS

- (1) **Efectos del Modelo de Atención de la Fundación Camino a Casa.**
Modelo de atención para recuperar y empoderar vidas:quince años uniendo esfuerzos
IADB: Inter-American Development Bank (2023).
With Arnoldo López Marmolejo and Emmanuel Mendez Rolón [\(Book\)](#)
- (2) **Approximation of Hate Detection Processes in Spanish and Other Non-Anglo-Saxon Languages.** News Media and Hate Speech Promotion in Mediterranean Countries. IGI Global (2023) 65-80. [\(Book\)](#)
- (3) **Matemáticas Financieras II.** With O. Espin García.
Editorial GAFRA, Puebla, México. (2012). [\(Book\)](#)
- (4) **La inferencia bayesiana en la administración de riesgos.**
Administración de riesgos. Vol II.
- (5) **Granger causalidad espuria en la relación de cartera total y vencida de créditos.**
Administración de riesgos. Vol IV.

TECHNICAL REPORTS

- (1) **Assessing the Effect of Gender Equality before the Law on Female Labor Participation and GDP per capita in Central America, Panama, and the Dominican Republic**
With Arnoldo López. *Interamerican Development Bank Technical notes. IDB-TN-2128. 2020*
[\(Link\)](#)
- (2) **Remittances Payments through Central Banks: An Application to the Central American Countries Exchange Rates.** With Arnoldo López and Daniel Ventosa.
Interamerican Development Bank Technical notes. IDB-TN-1864. 2019
[\(Link\)](#)

WORKING PAPERS

- (1) **Expecting the unexpected: economic growth under stress**
(JMP) [With Esther Ruiz & Gloria González] (R&R in JAE). ([Link](#))
- (2) **All you want to know about the economic impact of climate change.**
[With Esther Ruiz & Pilar Poncela & Aránzazu de Juan] (submitted). ([Link](#))
- (3) **Modelling intervals of minimum/maximum temperature in the Iberian Peninsula.**
[With Esther Ruiz & Gloria González] (TBS soon). ([Link](#))

AWARDS AND GRANTS

2024	Member of the Mexican National System of Researchers (SNI). LEVEL II [FROM 2024].
2017	Member of the Mexican National System of Researchers (SNI). LEVEL I [2018-2023].
2016	Young Investigator Training Program (YITP) prize. AWARDED BY THE ASSOCIATION OF FOUNDATIONS OF BANKING ORIGIN (ACRI) AND THE ITALIAN ECONOMETRIC ASSOCIATION..
2016	Travel grant on a competitive basis to attend the 3rd IAAE conference. INTERNATIONAL ASSOCIATION FOR APPLIED ECONOMETRICS.
2013	Full-time employment as a PhD Fellow. CENTER FOR RESEARCH IN ECONOMETRIC ANALYSIS OF TIME SERIES (CREATE) INSTITUTE FOR ØKONOMI AT AARHUS UNIVERSITET.
2011	Distinction to the Best Academic Record. MSc in Economics 2009-2011. UNIVERSIDAD DE GUANAJUATO.
2011	Scholarship for a research stay abroad. CONACYT ¹
2011	Recognition of academic merit for academic year 2010 and 2011. UNIVERSIDAD DE GUANAJUATO.
2009	CONACYT scholarship for graduate studies (master). 2009-2011.
2005	National Statistical Prize (3rd place), Mexico. <i>NATIONAL AWARD FRANCISCO ARANDA</i> Best bachelor dissertation in statistics for the academic years 2005-2006, awarded by Mexican Statistical Association .
2003	Scholarship for bachelor studies by excellence academic performance. 2003-2005. UNAM-TELME FOUNDATION.

TEACHING

- Instituto Tecnológico Autónomo de México [From 2018]
BSc: Economics, Finances, Actuarial Sciences, and Applied Mathematics. MSc in Risk Management. MSc in Economics
Courses: Econometrics, Regression analysis, Time Series Econometrics, Financial Econometrics, Time Series, Econometric foundations and Introduction to statistics.
- Universidad Carlos III de Madrid [2017-2018]
BSc: International Studies. MSc/PhD in Social Sciences.
Courses: Statistical methods for social sciences, Causal inference
- Aarhus University [2014-2015] (Teaching assistant)
Courses: Quantitative and limited dependent variables, Mathematical Economics II.

- Centro de Investigaciones y Docencia Económicas [2013] (Teaching assistant)
MSc in Economics. Time series econometrics.
- Facultad de Ciencias. UNAM [2004-2013]. (Lecturer)
BSc in Actuarial Sciences.
Courses: Econometrics I, Time series econometrics, Bayesian econometrics, Finances I and II, Financial mathematics, Statistics I and Probability II.
- Universidad de Guanajuato. [2009-2010]. (Teaching assistant)
Courses: Statistics I, Econometrics II

SUPERVISED STUDENTS (BSC AND MSc)

- BSc A. Jørgensen and M. Sproegel, 2015, [AU]. Gustavo Santa Rosa García, 2016 [UNAM].
Manuel Cortés 2019 [ITAM]x2. Mauricio Villanueva 2020 [ITAM]x2. Paulina Peralta 2022 [ITAM].
Raymundo Gómez 2023 [ITAM]
- MSC Mar Cañizares 2018 [UC3M], Helga Frech 2018 [UC3M], Manuel Cortés 2022 [ITAM],
Raúl Garduño 2023 [ITAM].

RESEARCH STAYS

- SUMMER 2022 Universidad Carlos III de Madrid. **Department of Statistics**.
- SUMMER 2019 Universidad Carlos III de Madrid. **Department of Social Sciences**.
- SPRING 2016 Visiting PhD Research Scholar. ACRI Young Investigator Training Program.
- PhD STAY ABROAD **Department of Statistical Sciences, University of Padova**.
VISITING *Massimiliano Caporin*.
- SPRING 2016 Visiting PhD Research Scholar.
- PhD STAY ABROAD **Department of Economics, Universidad Carlos III de Madrid**.
VISITING *Carlos Velasco*.
- MAY-JUNE 2013 Centro de Investigaciones y Docencia Económicas (CIDE), Mexico City.
- JAN-JULY 2011 Institute of Mathematics. Cracow University of Technology, Cracow.
- JUNE 2011 Université Paris I (Pantheon-Sorbonne). SAMM Laboratoire,

SEMINARS AND CONFERENCES (ONLY PARTICIPATIONS AFTER 2015)

2023 ► *Coloquio Mexicano de Economía matemática y Econometría. Guanajuato, México. September, 2023.* ► *6th International Conference on Econometrics and Statistics. Tokyo, Japan. August, 2023.* ► *Seminario ITAM.*, ► *Seminario CIDE*.

2022 ► *Annual conference of the International Association for Applied Econometrics. London.*, ► *Arkansas State University-CQ.*, ► *Regional Cooperation and Green Economy for a Post-Pandemic World Conference. Liaoning University, China.*

2021 ► *Department seminar, Orebro University, Sweden.*, ► *The 14th Workshop on Nonstationary Systems and their applications, Grodziec, Poland.*, ► *26th International Panel Data Conference*, ► *XXXIV Foro Nacional de Estadística*, ► *CLATSE 2021* ► *Universidad Veracruzana*

2020 ► *International Symposium on Forecasting*

2019 ► *Latin American Meeting of the Econometric Society. Puebla, Mexico.*, ► *Annual conference of the International Association for Applied Econometrics. Cyprus.*, ► *International Panel Data Conference. Vilnius, Lithuania*

2018 ► *VIII_t Workshop in Time Series Econometrics. Zaragoza, Spain.*, ► *Workshop on econometrics and data science. Monterrey, Mexico.*, ► *Long Memory conference. Aalborg, Denmark.*, ► *Semana de matemáticas. ITAM, México.*, ► *Department seminar. Banco de México. Mexico city, Mexico.*, ► *Seminario Aleatorio. ITAM. Mar 2018. Mexico city, Mexico.*

2017 ► *Department of Statistics. UC3M. Feb 2017. Madrid, Spain.*, ► *25th Annual Symposium of The Society for Nonlinear Dynamics and Econometrics. Paris, France.*, ► *40th International Panel Data Conference. Thessaloniki, Greece.*, ► *70TH European Meeting of the Econometric Society. Lisbon, Portugal.*, ► *Economic department seminar. Univ Pub Navarra. Pamplona, Spain.*

2016 ► *Department Seminar. Laboratorio Nacional de Políticas Públicas. CIDE. Mexico City, Mexico.*, ► *Seminar. Department of Statistical Sciences. University of Padua. Padua, Italy.*, ► *CREATE5 Anniversary Meeting. Sandbjerg, Denmark.*, ► *Annual conference. International Association for Applied Econometrics. Milan, Italy.*, ► *Workshop in Time Series Econometrics. April 2016. Zaragoza, Spain.*, ► *PhD Workshop. April 2016. Madrid, Spain.*

2015 ► *CREATE5 Lunch Seminar. November 2015 & February 2016. Aarhus, Denmark.*, ► *Annual DGPE Workshop, November 2015. Sandbjerg, Denmark.*

ADDITIONAL INFORMATION

Language skills:	Spanish, English, French (Basic)
Data Base Programming:	FoxPro, SQL, and Oracle. (Fortunately $\xrightarrow{P} 0$)
Statistical softwares:	SPSS, E-Views, STATA, and Gretl.
Technical programming:	Matlab, R, SAS $\xrightarrow{P} 0$.

REFEREE AND REVIEWER ACTIVITIES

Spanish:	Trimestre económico, Lecturas de Economía, and Revista de Métodos Cuantitativos para la Economía y la Empresa.
English:	International Journal of Forecasting, The American Statistician, Latin American Economic Review, Journal of the Operational Research Society, Energy Economics, Empirical Economics, Journal of Nonparametric Statistics, Springer, Resources Policy, Energy journal, Nature, Quantitative finance, Journal of Econometrics, Regional Statistics, International Journal of Environmental Research and Public Health, Energies, Applied Economics Letters, Environment and Development Economics, Journal of Economic Structures, Atmosphere, Finance Research Letters, Communications in Statistics, Econometrics and Statistics, Atmosphere, Energies, Regional Statistics.

ORGANIZATION OF ACADEMIC EVENTS

- Department seminar at ITAM, 2020-2022. Principal organizer.
- MiDAS Network, 2020-2021. Coordinator.
- Coloquio virtual AME, 2020. Principal organizer.
- Mathematical and Statistical Methods for Actuarial Sciences and Finance (MAF conference) Madrid 2018, Member of the scientific committee.

SERVICE IN SELECTION COMMITTEES AND ACADEMIC SOCIETIES

- Premio Francisco Aranda Ordaz de la AME, 2020-2021. Principal organizer.
- Evaluation of candidates for CONACYT's scholarship for PhD studies and posdoctoral stays in the economics area
- Member of some selection committees in the Fullbright-García Robles program of Comisión México-Estados Unidos para el Intercambio Educativo y Cultural (COMEXUS).

REFERENCES

References Available Upon Request.