

## Curriculum Vitae

### Sergio Colin-Castillo, Ph.D.

Research Center for Socio-economic Studies (CISE),  
Autonomous University of Coahuila (UAdeC)  
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### **EDUCATION**

Ph.D. Agricultural Economics, Texas A&M University, USA. Dec. 2011  
M.Sc. Applied Economics, El Colegio de la Frontera Norte (COLEF), México. 1994  
B.S. Agricultural Economist, Autonomous University of Chapingo, Mexico. 1990

### **RESEARCH TOPICS**

Environmental and natural resource economics: Water, Energy, and community-based management for the Common Pool Resources.

### **PROFESSIONAL SERVICE**

Professor (full) at Research Center for Socio-economic Studies (CISE), UAdeC. Jan 2012 - To date  
Editorial Board, Equilibrio Económico Journal, 2021 to date  
Topic leader, Environmental Economics and Management, UAdeC Research Meeting, 2020, 2021  
Conacyt evaluator committee, several programs, 2015 to date  
National-Researcher (SNI), Level I. 2015 to date

#### Teaching

- Statistics. Master program in Regional Economics. CISE – UAdeC. 2012 to date
- Environmental economics. Master program in Regional Economics. CISE – UAdeC. 2014 to date
- Thesis Seminars. Master and Doctorate programs in Regional Economics CISE – UAdeC. 2012 to date
- Microeconometrics Master program in Regional Economics. CISE. 2016 to date
- Water economics. Master program in water management (with Ismael Aguilar Benitez). COLEF. 2012
- Statistics. Faculty of agricultural sciences. The University of the State of Mexico (UAEM). 1995

Speaker-Instructor

- Workshop coordinator: "Water management analysis by uses, basin, and regions in Mexico". As part of the research project "Towards a comprehensive water management by hydrological basin: An analysis of the availability and uses" funded by CONACYT. April 2016
- Course Coordinator: Applied econometrics with Stata, taught by Dr. Gustavo Sánchez. Senior Specialist. Stata, Corp. Sept 2015
- Environmental economics course taught in some universities and government agencies in Mexico (1998 to 2003), Ministry of Environment of Ecuador (2000), University of Litoral, Santa Fe, Argentina, and UNEP (1999).

Government: Environmental Economics Research-Manager at the National Institute of Ecology, Mexico

- Deputy Director of Evaluation and Economic Indicators. Mar 2003 – Nov. 2003
- Deputy Director of Economic Instruments and Environmental Markets. Sept. 1998 – Mar. 2003
- Head of the Economic Analysis Department. Feb. 1995 – Aug. 1998

Economic analysis of projects and environmental regulations for the Mexican government: Design of economic instruments for the management of used lubricating oils, used tires, used batteries, marine parks of Mexico, and the construction of environmental indicators (UNEP methodology) for Mexico.

- Supervisor. Government of Mexico: Food Distribution Program CONASUPO / DICONSA (Puebla). 1992

**RESEARCH EXPERIENCE**

• **Ph.D. dissertation**

"Measuring the potential to adopt self-government to manage a common pool resource" Director: Dr. Richard T. Woodward.

First, I developed a methodology to assess the potential to adopt community-based management (P-CBM) for environmental conservation in one small fishing community. Second, I measured the technical efficiency (TE) of every fisher, and third, based on the relationship of TE with P-CBM I was able to provide some information to support the decision-making process in environmental conservation.

• **Research assistant.** Department of Agricultural Economics, Texas A&M University. Aug. 2008 – May. 2010

Duties in the evaluation of the water quality trading market (WQT) of Miami River, Ohio, the largest and most successful nutrient trade program (water pollutants e.g., nitrogen) in the USA. Under the WQT, farmers and major polluters such as plant owners of wastewater treatment can negotiate the rights to emit loads of nutrients to control pollution in the river.

• **Research assistant.** Department of Economics, El Colegio de la Frontera Norte (COLEF). Sep.– Dec. 1994

• **Consultant**

- (P.I.) SAT- Tax Administration System. Mexico. Evaluating the tax evasion in the Mexican mining sector. 2021
- (P.I.) WWF – World Wildlife Fund and the ICF Technical Assistance Program of the British Embassy. Enabling Conditions for a Just Transition away of Coal in Mexico". 2020-2021.
- (P.I.) Markestrat (Brazil) and BASF-Co (Germany). Evaluating the distribution systems of agricultural inputs in Mexico. 2014
- COLEF-SEDESOL - Government of Coahuila. Urban development and territorial planning program of the State of Coahuila. 2012

- v. (P.I.) Government of the State of Mexico, for the design of the Urban Development Plan of Tepetlixpa, Mex. 2004.
- vi. Pan American Network for the Management of Waste Residuals (REPAMAR). Assessing environmental policies in Latin America for used batteries. 2002

## **PUBLICATIONS**

### **Journal articles**

- Colin-Castillo, Sergio; and Judith A., Maldonado Cruz. "The potential of green jobs in the framework of the just transition: Mexico". *Equilibrio Económico. Revista de Economía, Política y Sociedad*. Vol. 18 (2), Núm. 54, Ago.-Dec. 2022 pp. 148-178. Available in: <http://www.economia.uadec.mx/pdfs/Rev22Sem2Art5.pdf>
- Colin-Castillo, Sergio; Adán L. Martínez-Cruz, Naím Manríquez-García. 2022. " Small-scale farmers' willingness to adopt chemical-free inputs and engage in collaborative arrangements –A discrete choice experiment in Central Mexico". *Econoquantum Journal*. Vol. 19(2), 1–20. Jul 2022.  
DOI:<https://doi.org/10.18381/eq.v19i2.7254>
- Colin-Castillo, Sergio; David Morales González. 2021. "Political action and the potential for self-governance: The collective action for the development". *Figuras Journal*. Vol. 2 (3): 8 - 26. Jul 2021.  
DOI: <https://doi.org/10.22201/fesa.figuras.2021.2.3.160>
- Colin-Castillo, Sergio; Salvador González (2019). "Proposal of indicators for the analysis of regional economic competitiveness: a case study in Coahuila, México". *Regiones y Desarrollo Sustentable* (2019) XIX: 37. Available in: <http://coltlax.edu.mx/openj/index.php/ReyDS/article/view/25>
- Martínez Gómez, F; Colin-Castillo, Sergio; Manríquez García, N. (2017). "Reflections on the Economics of Solidarity: a literature review". Iztapalapa, *Journal of Ciencias Sociales y Humanidades*, Año 38, Vol. 0(83): 11-42. Jul – Dec 2017 Available in: <http://revistaiztapalapa.izt.uam.mx/index.php/izt/article/view/341>
- Colin-Castillo, Sergio; Richard T. Woodward. "Measuring the potential for self-governance: An approach for the Community-based management of the common-pool resources". *International Journal of the Commons, USES*. Vol. 9 (1): 281 - 305. March 2015. Available in: <http://www.thecommonsjournal.org/index.php/ijc/article/view/490>
- Colin-Castillo, Sergio; Richard T. Woodward. "Methodological proposal to measure the potential for self-governance" *Economic Analysis Journal*, Universidad Autónoma Metropolitana - Azcapotzalco (UAM-A), México. Vol. 29 (70): 57-71. Available in: <http://onlinelibrary.wiley.com/doi/10.1002/agr.21340/abstract>
- Colin-Castillo, Sergio; M. Hernandez and O. Capps Jr. (2013) "Do marketing margins change with food scares?: Examining the effect of food recalls and disease outbreaks in the USA red meat industry." *Agribusiness*. Vol. 29 (4): 426-454. Available in: <http://onlinelibrary.wiley.com/doi/10.1002/agr.21340/abstract>
- Colin-Castillo, Sergio; A. Martínez. 2003. Environmental certification of forests in Mexico: a preliminary report. *The Ecological Gazette of the National Institute of Ecology (INE)*. 67 (2003): 45-60. Available in: <http://www.redalyc.org/pdf/539/53906704.pdf>
- Colin-Castillo, Sergio, 2000. "The consumption and environmental management of fuels and lubricants in Mexico". *Comercio Exterior, Mexico*. Vol. 50 (3): 213-220, March 2000. Recovered from: [http://revistas.bancomext.gob.mx/rce/sp/index\\_rev.jsp?idRevista=50](http://revistas.bancomext.gob.mx/rce/sp/index_rev.jsp?idRevista=50)

### **Books**

- Colin-Castillo, Sergio. 2024 (Editor and coordinator of the book) **Environmental and natural resources economics: Applications in the regional economy**. 1st edition (e-book). Autonomous University of Coahuila (*Forthcoming, first semester of 2024*)
- Colin-Castillo, Sergio, and Gabriel Rodriguez Yam. **Probability and Statistics**. With application to economics and natural resource use. Autonomous University of Coahuila and Autonomous University of Chapingo (*Forthcoming*)
- Colin-Castillo, Sergio. 2015 **Self-governance for the community-based management of common-pool resources: measuring the adoption in fishing**. 1st edition. DeLaurel Editorial-Autonomous University of Coahuila. Mexico. ISBN: 978-607-9396-00-8. Available in: [https://www.edicionesdelaurel.com/delaurel/pa\\_AUTOgob\\_doc.html](https://www.edicionesdelaurel.com/delaurel/pa_AUTOgob_doc.html)
- Colin-Castillo, Sergio; Sophie Avila Fuco and Carlos Muñoz Villareal. 1999. **Economics of Biodiversity**. 1<sup>st</sup> Edition: Sept 1999, 2nd reprint: Nov. 2003. SEMARNAP-INE-CONABIO. Mexico. ISBN: 968-817-279-9. Available in: [https://www.researchgate.net/publication/236862565\\_Economia\\_de\\_la\\_Biodiversidad\\_1999\\_Libro](https://www.researchgate.net/publication/236862565_Economia_de_la_Biodiversidad_1999_Libro)

### **Book Chapters**

- Colin-Castillo, Sergio, Ismael Aguilar Benítez, and Azahara Mesa-Jurado. *Exploring technical efficiency in agricultural production in three regions of Mexico*. In the book: **Environmental and natural resources economics: Applications in the regional economy**. 2024, 1st edition. Autonomous University of Coahuila (*Forthcoming*)
- Colin-Castillo, Sergio, and Ismael Aguilar Benítez. *Performance Evaluation for Sustainable Urban Water Supply Services in Mexico: A Case Study*. In the book: **Sustainable Environment and Health, Practical Strategies**. 1st edition. It will be published by Apple Academic Press, APP (<http://www.appleacademicpress.com/>), and worldwide distributed by CRC Press, Taylor & Francis Group. (*Forthcoming*)
- Colin-Castillo, Sergio; Azahara Mesa-Jurado, and Miriam A. Botero. *From scarcity to abundance: An overview of agricultural water uses in three hydrological subregions of Mexico*. In the book: **The water management by his uses: San Juan River, Mexico Valley, and Low Grijalva**. El Colegio de la Frontera Norte (COLEF) 2020. Edit. Mexico. Pag. 81-118. ISBN: 978-607-479-364-2. Available in: <https://libreria.colef.mx/detalle.aspx?id=7754&AspxAutoDetectCookieSupport=1>
- Colin-Castillo, Sergio; Ismael Aguilar-Benitez, Eugenio Gómez-Reyes, Felipe Omar Tapia-Silva, Lilia Rodríguez-Tapia, M. Azahara Mesa-Jurado, Silvia Alicia Rodríguez Tapia, Fabiola S. Sosa-Rodríguez, and José Luis Castro Ruiz. *Conclusions and recommendations*. In the book: **The water management by his uses: San Juan River, Mexico Valley, and Low Grijalva**. El Colegio de la Frontera Norte (COLEF) 2020. Edit. Mexico. Pag 285-292. ISBN: 978-607-479-364-2. Available in: <https://libreria.colef.mx/detalle.aspx?id=7754&AspxAutoDetectCookieSupport=1>
- Colin-Castillo, Sergio; L. Saad and E. Salinas. (1998). *Proposals to establish the deposit system reimbursement for waste classified as "special handling"*. In the book: **Economic Instruments and Environment**. Mexico. Edit. National Institute of Ecology - Semarnap. Pages 46-66. Available in: [http://www2.inecc.gob.mx/publicaciones/consultaPublicacion.html?id\\_pub=19](http://www2.inecc.gob.mx/publicaciones/consultaPublicacion.html?id_pub=19)

Articles in preparation

- i. With Ismael Aguilar B. Analysis of efficiency frontiers of water services in Mexico: An application of robust non-parametric techniques using microdata from the Economic Census'. For Spring 2024
- ii. With Ismael Aguilar B. and Reynier Rodríguez. Assessing the impact of having a household water reservoir to alleviate the water crisis: A Diff-Diff analysis in Monterrey, México. For Spring 2024
- iii. With Judith A., Maldonado Cruz; Dávila, Alejandro. "Energy consumption and economies of scale in the generation of CO2 by households in Mexico". For Spring 2024
- iv. With Manriquez García, N.; Martinez Cruz, A. "Measuring the preferences towards a market sharing option: an application of DCA and LCA". For summer 2024
- v. With Felix-Verduzco, G. "Jevons and the rebound effect on energy consumption in Mexico:1970-2020"
- vi. With Ulises Genis Cuevas. "Measuring technical efficiency in a small-scale fishery production cost in Durango, México"
- vii. "Measuring the potential to adopt self-governance for water community-based management in Cuatro Ciénegas, Coahuila, México".

Articles in various publications (not indexed)

- ¿It is possible to forecast the adoption of self-government? Reflections on the management of natural resources, "Ciencia-Acierta" Magazine of Graduated Studies office at UAdeC. 2015
- ¿Es posible pronosticar la adopción del autogobierno? Reflections on resource management natural. The "El Bien Común" Magazine, CEN del PAN. Sept. 2015
- Colin-Castillo, S. and R. Woodward. (2012). "Evaluating the Potential for Self-Governance in a Fishery". LACEEP Working paper at: <http://www.laceep.org/publications/working-papers?start=20>
- Colin-Castillo, S.; M. Hernández and O. Capps Jr. (2011) "Do marketing margins change with food scares?: Examining the effect of food recalls and disease outbreaks in the USA red meat industry". IFPRI Discussion paper available at: <http://www.ifpri.org/publication/do-marketing-margins-change-food-scares>
- Colin-Castillo, S., S. Dhouhadel and O. Capps Jr. "The marketing margins analysis under food recalls and BSE outbreaks in the US beef industry". (2009). Working paper 49386. at <http://purl.umn.edu/49386>
- Colin-Castillo, S., L. Saad and E. Salinas. Proposal of a deposit refund system for the management of cell phone batteries. Symposium: Economic implications of hazardous waste management. National Autonomous University of Mexico (UNAM). 7-8 de Sept. 1999.
- Various publications with L. Saad and E. Salinas in the book of the First Symposium: Economic implications of hazardous waste management. UNAM (National Autonomous University of Mexico), 1996.
- Design of a deposit refund system for the management of used lubricating oils in Mexico.
  - Design of a deposit refund system for the management of used tires in México.
  - The reuse of scrap tires in Mexico.
  - The production of scrap tires in Mexico.
  - The production of used lubricating oil in Mexico.
  - The management of used lubricating oils in Mexico.

Colin-Castillo, S. The cost of protecting natural resources in agriculture: The case of lettuce in the Mexicali Valley, B.C. y el Imperial Valley, Ca. 1994. El Colegio de la Frontera Norte (COLEF).

Colin-Castillo, S. The income in corn cultivation under the conservation tillage system in Tulancingo, Hidalgo. 1991. Department of agricultural economics of the Universidad Autónoma Chapingo (UACH).

### **REPRESENTATIONS AND COMMUNITY SERVICE**

Director and Creator of *EconSMART*. A Podcast (in *Spotify*) and a weekly radio program transmitted every Thursday, 8:30 pm in Radio Universidad Autonoma de Coahuila, 104.1 FM. October 2022 to date

TV round table participant in the program: “The water in Coahuila” under the project Con-Ciencia. 2022 and 2023

Round table participant in the Forum: Water and human rights: The human rights for water and the arsenic pollution in La Laguna. Ibero American Commission of Human Rights. 2021

Coordinator of the Meetings: The economics and environmental policy in the research at the UAdeC. Organized by the Postgraduate and Research Direction from the UAdeC. 2020

CISE representation for the implementation of the program: The Green Office. Governmental initiative to promote sustainable actions, in coordination with the Environmental University Program (UAdeC). 2019

### **CONFERENCE PRESENTATION**

*(Presenter in bold, in case of two or more authors)*

**Colin-Castillo, S.** Keynote Speaker. “The climate change, the coal use and the labor market ¿What is the perception of the coal workers of Coahuila? In the Meeting: “Only one heart”, Organized by the UAdeC to celebrate the World Day of Environment 2022

**Colin-Castillo, S.;** Manríquez García, N.; Martínez Cruz, A. “Measuring the preferences towards a market sharing option: an application of DCA and LCA. In the Agricultural & Applied Economics Association Joint Annual Meeting, EE.UU. Jul 2019. Atlanta, Ga. 2019

**Colin-Castillo, S.;** Judith A., Maldonado Cruz; Phillip Sisto, N. “Energy consumption and economies of scale in the generation of CO2 by households in Mexico”. 33 National Statistics Forum (FNE y 13CLATSE), Oct 2019. Guadalajara, Mexico. 2018

**Colin-Castillo, S.;** Manríquez García, N.; Martínez Cruz, A. “Measuring the preferences towards a market sharing option: an application of DCA and LCA, 7th International Meeting of Stata users in Mexico. Ago 16 y 17 de 2018. Tlaxcala, Mex. 2018

**Colin-Castillo, S.;** Alejandra López Montes, Luis Huesca Reynoso. Progressivity of environmental taxes: A regional analysis of gasoline consumption in Mexico. XI Congress of the Spanish Association of Agrarian Economy, Sept 16 y 17 de 2017. Elche, España. 2017

**Colin-Castillo, S.;** Morales González, D. Political action and self-governance. The potential of collective action for community-based management of common-pool resources use. XI Congress of the Spanish Association of Agrarian Economy, Sept 16 y 17 de 2017. Elche, España. 2017

- Colin-Castillo, S.** The technical efficiency of water in the agricultural sector. Irrigation Week. Autonomous Agrarian University Antonio Narro, Nov 10 de 2017 CV Sergio Colin-Castillo. 2017
- Colin-Castillo, S.;** Marina Celis Rodríguez, y Gilberto Aboites Manrique. Stratification of the agricultural sector in Mexico. XXVI Mexican Colloquium of Mathematical Economics and Econometrics, Universidad Autónoma Metropolitana, October 2016.
- Colin-Castillo, S.** Alejandra López Montes, Luis Huesca Reynoso. Impact of an environmental tax on households in Mexico. Regional analysis of gasoline consumption and transportation. XXVI Mexican Colloquium of Mathematical Economics and Econometrics, Universidad A. Metropolitana, October 2016.
- Colin-Castillo, S.** Alejandra López Montes, Luis Huesca Reynoso Impact of an environmental tax on households in Mexico. Regional analysis of gasoline consumption and transportation. 31 International Statistical Forum. Chapingo Autonomous University, September 2016.
- Ulises Genis Cuevas,** Nicholas P. Sisto y Sergio Colín Castillo. Scale efficiency in urban water supply in Mexico: evidence by data envelope analysis. XXIV Mexican Colloquium of Mathematical Economics and Econometrics, at the Autonomous University of Nuevo León, September 22 – 26, 2014.
- Colin-Castillo, S.** Richard T. Woodward. Measuring the potential for self-governance: An empirical approach for the management of the fisheries. IV World Congress of Environmental and Resource Economics (WCERE). June 29 – July 2, 2014.
- Colin-Castillo, S.** Propuesta metodológica para medir el potencial de autogobierno para el manejo de recursos comunes. 4 congreso Nacional de Ciencias Sociales (COMECOSO). March 24 – 28, 2014.
- Colin-Castillo, S;** Richard T. Woodward. Propuesta metodológica para medir el potencial de autogobierno para el manejo de recursos comunes. XII Simposio Internacional y VII Congreso Nacional de Agricultura Sostenible. Sociedad Mexicana de Agricultura Sostenible (SOMAS) A.C. Nov 2013.
- Colin-Castillo, S.** “Measuring the technical efficiency in a small-scale fishery” XXIII Coloquio Mexicano de Economía Matemática y Econometría (COLMEME). Universidad Autónoma del Estado de México. Sept. 2013
- Colin-Castillo, S;** F. Alonzo R. “Determinantes para el manejo de la pesca: hacia una política sustentable en la región norte-centro de México”. Reunión de la red de análisis y evaluación de políticas económicas y sociales. CISE – UAdeC. Saltillo, Coah. Dic 6, 2012.
- Colin-Castillo, S;** M. Hernández and O. Capps Jr. “Do marketing margins change with food scares? Examining the effect of food recalls and disease outbreaks in the USA red meat industry”. Agricultural and Applied Economics Association (AAEA) annual meeting, Seattle, Wa, August 12 – 14, 2012.
- Colin-Castillo, S.** El potencial de autogobierno para la gestión de la pesca y el efecto de la eficiencia técnica. Primera reunión nacional de la innovación y la investigación pesquera en México, 2010.
- Colin-Castillo, S.** “Measuring the Potential of Adopting the Self Governance for Fisheries Management: The effect of technical efficiency”. IX Taller del Latin America and Caribbean Environmental Economics Program (LACEEP). Cuzco, Perú, 2009.
- Colin-Castillo, S., **S. Dhoubhadel,** y O. Capps Jr. “The Marketing Margins Analysis under Food Recalls and BSE Outbreaks in the US Beef Industry”. Agricultural and Applied Economics Association (AAEA) annual meeting, Milwaukee, WI, July 26 – 28, 2009.

**Yanhong, J.**, S. Colin-Castillo, y V. Salin. "The Impacts of Food Scares on U.S. Meat Demand." Western Agricultural Economics Association meeting, Hawaii, June 2009.

**Colin-Castillo, S.**, y A. Martínez. 2003. La certificación ambiental de los bosques mexicanos. En el 1er Congreso Internacional de la Asociación Latinoamericana de Economistas Ambientales (ALEAR). Cartagena, Colombia. July 2003.

**Colin-Castillo, S.** Los servicios ambientales y la valoración económica. Seminario Internacional y Taller de los servicios ambientales. Veracruz, México. May 11 – 12, 2003.

**Colin-Castillo, S.** El uso de instrumentos económicos. Curso regional de manejo de residuos sólidos y peligrosos. Organizado por el Centro Nacional de Investigación y Capacitación Ambiental (CENICA) y la Japan International Cooperation Agency (JICA). January – February 2003.

#### Posters at conferences

Colin-Castillo, S.; Richard T. Woodward. The economic performance and the potential for self-governance in the fishery. Poster presented at the Agricultural & Applied Economics Association and Western Agricultural Economics Association Joint Annual Meeting, EE.UU. San Francisco, CA. Jul 2015. [https://www.aaea.org/UserFiles/file/PaperProgramFINAL\\_v1.pdf](https://www.aaea.org/UserFiles/file/PaperProgramFINAL_v1.pdf)

Colin-Castillo, S. "Measuring Technical Efficiency in a Small-Scale Fishery: A Stochastic Frontier Analysis to an Inland Fishery in the North Side of Mexico". And poster 2: "Measuring the potential for self-governance: An approach for the management of the common-pool resources ". Both presented in the Agricultural and Applied Economics Association (AAEA) 2014 Joint Annual Meeting, Minneapolis, MN. July 24 – 26, 2014. <https://www.aaea.org/meetings/2014-aaea-annual-meeting>

Colin-Castillo, S. "Measuring the technical efficiency in a small-scale fishery: A causality analysis". Presented in 2011 Agricultural and Applied Economics Association (AAEA) 2011 AAEA & NAREA Joint Annual Meeting, Pittsburgh, PA. July 24 – 26, 2011. <http://ageconsearch.umn.edu/handle/103822>

Aisabokhae, R.A., P. Pancharatnam, P. Abeygunawardena, B.A. McCarl y S. Colin-Castillo. "Impact of the Green Revolution on Changes in Forest Cover in Selected Developing Countries". Presented in the Association of Environmental and Resource Economists (AERE), June 9 -10, 2011, Seattle, WA.

Varios con L. Saad y E. Salinas: "La reutilización de llantas de desecho." "La producción de las llantas desecho en México". "El aceite usado y la producción de aceite lubricante en México". "La gestión del aceite lubricante usado en México". Presented in the First National Symposium de Dangerous Residues. Universidad Nacional Autónoma de México, 1996.

#### DIRECTED THESIS

Current. Luis Alfonso Diaz Blanco. Exploring the drivers for the adoption of electric vehicles: A survey in the city of Saltillo applying a Discrete Choice Analysis (DCA) (DCA). Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2024. DIRECTOR

Current. Beatriz Diaz Pérez. Analysis of the election of the public transportation in large Mexican cities. Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2024. CO-DIRECTOR

Current. Christian Lucas Rodríguez. Assessing the cost and benefits of eco-energy saving technologies in the households of Coahuila, Mexico. Doctorate dissertation in Science at UAdeC. CO-DIRECTOR

- Judith Abisinia Maldonado Cruz. "Energy consumption and the generation of CO2 by the households in Mexico: A assessment from the social account matrix and CO2 footprint for 2016-2018". Doctorate dissertation in Regional Economics. CISE-Ph.D. Program. 2022. DIRECTOR
- José Eduardo Márquez Palacios. Measuring the Porter Hipótesis. A non-parametric approach (global and national levels). Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2022. DIRECTOR
- Idefonso Lopez. A quality assessment of energy policy: An approach to just transitions out of coal in Coahuila, Mexico. Bachelor Science Thesis in Economics. Economics Sciences Department at UAdeC. 2022. DIRECTOR
- Manuel Cayetano Martinez. "Measuring the Impact on Households Welfare of Coahuila from a hypothetical charge price to the water utility service". Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2021. DIRECTOR
- Judith A., Maldonado Cruz. "Energy consumption and economies of scale in the generation of CO2 by households. An analysis for the regions of Mexico". Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2018. DIRECTOR
- Naím Manríquez García. "Rationality and alternative economic practices: An approach from the SSE" Doctorate dissertation in Regional Economics CISE-Ph.D. Program. UAdeC. 2018. CO-DIRECTOR
- Nidia Camacho Gaxiola. " Analysis of energy expenditure and household income in Mexico " Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2017. CO-DIRECTOR
- Marina Celis Rodríguez. " Analysis of the determinants of the agrarian structure in Mexico " Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2016. DIRECTOR
- Alejandra López Montes. "Impact of an environmental carbon tax on Mexican households and regions" Master Science Thesis in Regional Development from the Food Research and Development Center CIAD-MSc. Program. 2016. CO-DIRECTOR
- Ulises Víctor Jesús Genis Cuevas. " Urban Water Supply Technology: Empirical Evidence and Public Policy Implications " Master Science Thesis of Regional Economics at CISE-MSc. Program. UAdeC. 2014. CO-DIRECTOR
- Josué Misael Bravo Peralta. "Analysis of the Alfalfa irrigation crop and the conservation of the Cuatrociénegas flora and fauna protection area, Coahuila." Chapingo Autonomous University / Department of Agricultural Economics. DIRECTOR
- Samuel Villa Alcalá. "Analysis of the Alfalfa irrigation crop and the conservation of the Cuatrociénegas flora and fauna protection area, Coahuila." Chapingo Autonomous University / Department of Agricultural Economics. DIRECTOR
- Cesar Ortiz Calixto. "Transfers of economic surplus from the primary sector and the agricultural subsector to the rest of the economy: 1970-2013" Autonomous Agrarian University Antonio Narro / Department of Agricultural Economics. DIRECTOR.

## **TECHNICAL REPORTS**

1. Colin-Castillo, S. 2022. Tax evasion on the mining sector: Mexico. For the SAT Mexican government agency, as a part of the project "Assessing the tax evasion in the Mexican mining sector" (2022).

2. Colin-Castillo, S. 2020. Analyzing the perceptions of labor quality of coal mining workers from the Carbonifera Region, Mexico. For WWF and the ICF Technical Assistance Program of the British Embassy, as a part of the Project “Enabling Conditions for a Just Transition away of Coal in Mexico” (2020-2021). Available in: <https://www.wwf.org.mx/?366571/Analisis-de-percepciones-sobre-calidad-del-empleo-en-la-region-carbonifera-de-Coahuila>
3. Colin-Castillo, S. 2012. Economic analysis for the elaboration of the: Urban development and territorial planning program of the state of Coahuila 2011-2016. El Colegio de la Frontera Norte (COLEF), SEDESOL y Government of the State of Coahuila.
4. Colin-Castillo, S., y A. Rodríguez. 2004. Plan urbano desarrollo de Tepetlixpa, Estado de México. Document for the Government of the State of México and the municipality of Tepetlixpa.
5. Colin-Castillo, S. 2004. Indicators for sustainable development. Document for the Environment Secretariat Environment and Natural Resources (SEMARNAT), Undersecretary of Management.

### **SEMINARS, WORKSHOPS, AND TALKS**

Several conferences in Mexico and other countries such as Ecuador, Peru, Costa Rica, and Argentina, participating with different programs and institutions such as the Environmental Economics Program for Latin America and the Caribbean (LACCEP), the Latin American Association of Environmental Economists (ALEAR), the Organization for Economic Cooperation and Development (OECD), Commission for Environmental Cooperation of North America (CCA), the Mexican Institute of Water Technology (IMTA), the United Nations for the Environment Program (UNEP), the Education Center for Sustainable Development (CECADESU), the University Environmental Program (PUMA-UNAM). In Universities such as Universidad Nacional del Litoral Argentina, El Colegio de Postgraduados, Universidad Autónoma Chapingo, Universidad de Guadalajara, El Colegio Nacional de Economista de México and Instituto Superior de Ciencias Agrícolas de La Habana, Cuba.

### **SHORT COURSES**

- ▯ Climate change, biodiversity, and the Social Capital. Sept. 24 -26, 2010. With Dr. Salvatore Di Falco from the London School of Economics (LSE), UK.
- ▯ Experimental and behavioral economics with applications to the environment. Sept. 23 – 26, 2009. With Dr. Peter Martinsson from the University of Gotemburgo, Suecia.
- ▯ Environmental management and policy. Oct – Dic, 2002. With Dr. Diego Azqueta. From the University of Alcalá de Henares and the National Institute of Public Administration (INAP), Spain.
- ▯ Applied Geography. May-August 1997. With Dr. Mónica Arroyo. Pan American Center for Studies and Research in Geography (CEPAIGE), Ecuador.

### **GRANTS AND CONTRACTS RECEIVED**

- i. **PI.** “Assessing the tax evasion in the Mexican mining sector” for the Tax Administration System (SAT) Mexican government agency (2021).
- ii. **Co-PI.** “Analyzing the perceptions of labor quality of coal mining workers from the Carbonifera Region, Mexico. For WWF and the ICF Technical Assistance Program of the British Embassy, as a part of the Project “Enabling Conditions for a Just Transition away of Coal in Mexico” (2020-2021).

- iii. **PI.** “Towards Comprehensive Water Management by Watershed: An Analysis of Availability and Uses” (Key 248719), financed by CONACYT (2015-2018).
- iv. **PI.** Colin-Castillo, S. 2014. Evaluation and distribution systems of agricultural inputs in Mexico. Markestrat - Brasil
- v. **Co-PI.** Urban development and territorial planning program of Coahuila State 2011-2016. El Colegio de la Frontera Norte (COLEF), SEDESOL and the Government of Coahuila. 2012. Available in: [http://www.segucoahuila.gob.mx/admin/uploads/Documentos/modulo23/Prog\\_est\\_des\\_urbano\\_2011\\_2017\\_periodico\\_121012.pdf](http://www.segucoahuila.gob.mx/admin/uploads/Documentos/modulo23/Prog_est_des_urbano_2011_2017_periodico_121012.pdf)
- vi. **PI.** Measuring the potential of self-government for fisheries community-based management: The effect of technical efficiency. Latin American and Caribbean Environmental Economics Program (LACEEP). 2010.
- vii. **PI.** Indicators for sustainable management. Ministry of the Environment and Natural Resources (SEMARNAT), Undersecretary of Management. 2004.
- viii. **Co-PI.** The urban development plan of Tepetlixpa, State of Mexico. Government of the State of Mexico and the municipality of Tepetlixpa. 2004.

## **PROFESSIONAL SERVICE**

### **Professional Associations**

- Member of Latin American and Caribbean Environmental Economics Program (LACCEP)
- Member of the Latin-American Association of Environmental and Natural Resources Economists (LAERE)
- Member of the European Association of Environmental and Resource Economists (EAERE)
- Member of the American Agricultural Economics Association (AAEA).
- Member of the Fulbright Student Association and the Fulbright fraternity.

## **DISTINCTIONS, AWARDS, AND OTHER ACTIVITIES**

- Scientific merit award: Tepetlixpa 2023. By the Municipality of Tepetlixpa, State of Mexico.
- PRODEP – Perfil deseable. 2013 to date
- Leader (coordinator) of the “cuerpo académico” UACOAH-CA-54 Economía Regional Aplicada. A research team organized under the rules of the Education Secretary of Mexico.
- The highest rank of Mexico on the Wanda Age Group classification for marathon runners, and selected to represent the national team of Mexico in the Age Group World Championship of Marathon in 2020-21 (suspended by Covid), 2022, and 2023. <https://www.worldmarathonmajors.com/rankings/world-championships>
  - 50-54 age group, October 02 2022, London, England.
  - 55-59 age group, October 08 2023, Chicago, USA.
- 2nd Place in the National Doctoral Thesis Contest, organized by the Mexican Society of Sustainable Agriculture, from November 11 to 16, 2013.
- LACEEP grant holder in the Environmental Economics Program for Latin America and the Caribbean Program (LACEEP). 2009-2010.
- Fulbright Scholar. July 2004 to August 2007
- Honors. Autonomous University of Chapingo, Mexico 1990
- Best runner and captain (track and field), Autonomous University of Chapingo Athletics Team, México 1990

- President of the Municipal Commission for the Preservation of the Cultural, Historical, and Natural Heritage of Tepetlixpa, the period 1999-2004 and coordinator of Ecology from 1996 to 1999

**OTHER SKILLS**

**Languages:** Spanish (full), English 90%

**Computer programs:** Stata, R, E-Views, Simetar, V-Basic, MS-Office