



Itza Tlaloc Quetzalcoatl Curiel Cabral

Heriberto Frias 915 Dept. 205. • Col. Del Valle Centro, Alcaldía Benito Juárez.

México, CDMX. CP 03100 • Movil: 55 3649 0575

Personal e-mail: itza.curiel@gmail.com

Nationality: Mexican • Date of birth: January 21th, 1983.

Education

Doctorate student in Economics, COLMEX.

PhD in Math, CINVESTAV. Pre – doctoral grade achieved.

Master degree in Economics, CIDE.

Bachelor degree in Math, Universidad Autónoma de Zacatecas

Work Experience

- Associated Professor: Coordinator of mathematics – CIDE 2022 – present
- Associated Professor: Coordination of mathematics – CIDE 2015 – 2022
- Research Assistant – SNI III 2014 – 2016
- External Professor – CIDE 2013 – 2015
- External Professor – INSP 2012 – present
- Research Assistant – CIDE 2009 – 2013
- Internal Professor – CIDE 2009 – 2013
- Supervisor – Science and technology board of Zacatecas: Workshops and research. 2007
- Supervisor / Pollster – Statistic and Applied Math Laboratory (LEMA) 2003–2005

Publications

- The Dynamics of Bargaining Power in a Principal-Agent Model. I. Curiel-Cabral, Sonia Di Giannatale, and Genaro Basulto. Invited revision
- Agent's Reservation Utility and Principal's Bargaining Power: A Static Moral Hazard Analysis. Itza Curiel-Cabral, Sonia Di Giannatale, Giselle Labrador-Badía. 2022
- Monitoring decisions in vertical integration. Sonia Di Giannatale, Itza T. Q. Curiel-Cabral and Jacqueline Chacón. Journal of Industrial and Business Economics. DOI: 10.1007/s40812-021-00189-8. 2021
- Police Obedience in Local Governments: A normal game model from Public Policy Perspective. Mónica Naime and Itza Tlaloc Quetzalcoatl Curiel Cabral. Games and Evolutionary Dynamics: Selected Theoretical and Applied Developments. Chap 11. 2020
- Compromise and incentives - CIDE Economics Division, Working Paper, No. 559. 2013
- Pareto Frontier of a Dynamic Principal – Agent Model with discrete actions: An evolutionary Multi – Objective Approach. Itza T. Q. Curiel Cabral (CIDE-CINVESTAV), Juan Herrera (IIMAS – UNAM), Katya Rodriguez-Vazquez (IIMAS – UNAM) – Computational Economics, 40, 415-443. 2012
- A RankMOEA to Approximate the Pareto Front of a Dynamic Principal – Agent Model. GECCO 2011, ACM: 785-792. Juan Arturo Herrera Ortiz, Katya Rodriguez-Vazquez, Itza T. Q. Curiel Cabral, Sonia Di Giannatale Menegalli 2011
- Risk Aversion and the Pareto Frontier of a Dynamic Principal – Agent Model: An Evolutionary Approximation - CIDE Economics Division, Working Paper, No. 521. 2011
- Productivity Shocks, Discount Rate and Incentives - CIDE Economics Division, Working Paper, No. 531. 2010
- Aproximación con Algoritmos evolutivos de la frontera de Pareto de un modelo dinámico de Agente- Principal con acciones discretas - CIDE Economics Division, Working Paper, No. 476. 2010

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Presentations

- Genetic Algorithm Approach. Thematic Session Speaker. La Paz, Bolivia. 2018
- Bargaining in the Principal-Agent Model: An Efficiency Analysis. Thematic Session Speaker. Madrid, Spain. 2016
- Compromise and incentives. Master Speaker Research Seminar. San Luis Potosi, SLP. 2014
- Compromise and incentives. 1st meeting Ph economy's students, compromise and incentive. México D.F. 2013
- 4th Meeting Eco static Control Systems in Red. Working day of Control, Evolutionary Games and Middle Camp. Hermosillo, Sonora. 2013
- A model of dynamic programming to describe a contract. Math Academic Unit. Zacatecas, Zac. Rodriguez-Vazquez, Itza T. Q. Curiel Cabral, Sonia Di Giannatale Menegalli 2010
- Conferences - Cosmological models and astronomy. Zacatecas, Zac. 2006-2008
- 12th National Encounter of Italian Teachers, Morelia Michoacán- Master Speaker. 2005
- Mexican Math society XXXVI National Congress- Master Speaker. 2003

Research Experience

- Research assistant of Onésimo Hernández Lerma. CINVESTAV 2014-2016
- Reviewer referee of International Journal of Operation Research. Springer- 2014
- Research assistant of Sonia Di Giannatale Menegalli. CIDE 2009- 2013
- Masther`s Degree Thesis – Evolutionary algorithms and dynamic programming: An application to the Agent – Principal model. Assessors: Dr. Sonia Beatriz Di Giannatale Menegalli, Dra. Katya Rodriguez Vazquez. 2009
- Bachelor`s Degree Thesis – Introduction to Genetic Algorithms. Assessors: Dra. Gema A. Mercado Sanchez, Dr. Hector Rene Vega Carillo. 2008
- Research Assistant of Dr. Ram Gopal Vishwakarma. Scientific Summer. International Center of Theoretical Physics, Abdus Salam. Miramare – Trieste, Italia. 2004

Teaching Experience

- | | Years |
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Nationality: Mexican • Date of birth: January 21th, 1983.

- Professor - Game Theory in Public Policy and Management. CIDE Phd. in Public Policy. 2017 – 2019
- Professor – Mathematic II. CIDE Bachelor's Degree in administration and international relations. 2014 – 2023
- Professor – Econometric. CIDE Masters in Public Policy and Management. 2014 – 2023
- Professor – Mathematics. CIDE Phd. in Public Policy. 2016 – 2019
- Professor – Mathematic I. CIDE Bachelor's Degree in administration and international relations. 2014 – 2019
- Professor – Economic Analysis. CIDE Master of Public Management. 2014 – 2019
- Co – Professor – Microeconomics. CIDE Masters in Public Policy and Management. 2013 – 2021
- Professor – Microeconomic I INSP Masters in Health Economics. 2011 – 2019
- Professor - Microeconomics II. INSP Masters in Health Economics. 2011 – 2019
- Professor – Mathematics I INSP Masters in Health Economics. 2012 – 2023
- Professor - Mathematics II. INSP Masters in Health Economics. 2012 – 2023
- Professor – Mathematics (Algebra, Calculus, Economics) CIDE Propaedeutic of Masters in Public Policy and Management & Phd. in Public Policy. 2016 – 2023
- Professor – Economic Analysis. CIDE Master of Public Management. 2015 – 2018
- Assistant Professor – Microeconomics I. CIDE Masters in Economics. 2009 – 2018
- Professor – Mathematics and Microeconomic INSP Propaedeutic of Masters in Health Economics. 2015 – 2018
- Professor – Mathematics (Algebra, Calculus, Economics) CIDE Propaedeutic of Masters in Public Policy and Management & Phd. in Public Policy. 2012 – 2023
- Professor – Methods Seminar . CIDE Phd. in Public Policy. 2015 – 2021
- Assistant Professor – Microeconomics. CIDE Phd. in Public Policy. 2014 – 2016
- Co – Assistant Professor – Mathematics (Algebra, Calculus, Economics) CIDE Propaedeutic of Masters in Public Policy and Management. 2014
- Assistant Professor – Microeconomics I. CIDE Masters in Economics 2011-2013. 2012
- Assistant Professor – Game Theory. CIDE Phd. In Public Policy. 2012
- Assistant Professor – Public Economics. CIDE Bachelors in Economics. 2012
- Assistant Professor – Microeconomics advanced level. CIDE Bachelors in Economics. 2011-2012
- Professor – Game Theory. CIDE Masters in Public Policy and Management 2010-2012. 2011
- Assistant Professor – Microeconomics Intermediate level. CIDE Bachelors in Economics. 2011
- Professor – Game Theory. CIDE Phd. in Public Policy. 2011
- Assistant Professor – Microeconomics. CIDE Masters in Public Policy and Management 2010-2012. 2010
- Assistant Professor – Game Theory. CIDE Masters in Economics 2009-2011. 2010
- Assistant Professor – Microeconomics II. CIDE Bachelors in Economics. 2010
- Assistant Professor – Mathematics (Calculus). CIDE Propaedeutic of Masters in Public Policy and Management 2010-2012. 2010
- Assistant Professor – Microeconomics Intermediate level. CIDE Bachelors in Economics. 2010
- Assistant Professor – Industrial Organization. CIDE Masters in Economics 2008-2010. 2009
- Assistant Professor – Game Theory. CIDE Masters in Economics 2008-2010. 2009
- Assistant Professor – Differential Equations. UAZ Mathematics Bachelor's Degree 2004
- Assistant Professor – Calculus II. UAZ Bachelor program in Mathematics 2004

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Nationality: Mexican • Date of birth: January 21th, 1983.

- Geometrics trainer – National Mathematics Olympics. Guanajuato, Gto 2003
- Mathematics Workshop – Colegio Margil. Zacatecas, Zac 2003

Thesis director & thesis synodal

- Impacto de la regulación de los consultorios médicos adyacentes a farmacias (CAF) sobre el gasto de bolsillo y la utilización de servicios de salud en México. Adriana Vargas. Master in Health Economics – INSP. 2021
- El juego de la cooperación internacional: una propuesta metodológica para observar el efecto de la asimetría en las relaciones internacionales sobre las Políticas Públicas domésticas a través del control de armas ilegales en México y los Estados Unidos. Sarah w Hirsch. Msc Public Policy and Management – CIDE. 2021
- Optimización Dinámica en un Modelo de Turismo Sustentable. Irving Rodolfo Mc Liberty Zurita. Master in Environmental Economics – CIDE. 2021
- Informalidad laboral Municipal en México: Análisis de sus causas desde un enfoque espacial. Edison Smith Fonseca Correcha. Msc Public Policy and Management – CIDE. 2020
- Un modelo de Agencia de Integración Vertical: Análisis de la Complementariedad de Esfuerzos. Lourdes Berenice Aispuro Zúñiga. Msc Economics – CIDE. 2019
- Taxonomía de la economía informal. Erick Herrera Galván. Msc Public Policy and Management – CIDE. 2018
- Vivienda asequible en la CDMX: un estudio de la Norma 26. Lizbeth Rodríguez. Msc Public Policy and Management – CIDE. 2017
- Informalidad en la microempresas mexicanas. Victor Arturo León Garcia. Msc Public Policy and Management – CIDE. 2017
- Análisis de la situación de las finanzas públicas y endeudamiento subnacional de las entidades federativas. Juanita Sepúlveda Rodirguez. Masters in Public Management – CIDE. 2016
- Incentivos para fomentar la (re)inserción y permanencia femenina en el mercado laboral formal asalariado. Oscar Arturo Cortés Hidalgo. Masters in Public Management – CIDE. 2015
- Identificación de patrones de consumo alimentario y actividad física para el diseño de una política pública integral de combate al sobrepeso y a la obesidad en México. Andrea Salas Solís Msc Public Policy and Management – CIDE. 2015
- Propuesta de política pública para mejorar la eficacia de las intevenciones gubernamentales del gobierno federal para el combate a la informalidad. Javier Felipe Patiño García. Masters in Public Management – CIDE. 2015
- Oprtimización de portafolios de inversión con algoritmos genéticos . Javier Eduardo Fernandez Rendón. Facultad de Ciencias – UNAM. 2014

Thesis reader

- La tarjeta de identidad electronica como un medio para la inclusion financiera. Liliana García Ochoa. Msc in Public Management-CIDE. 2015

Workshops and extra-curricular activities

- the XXXII European Workshop on Economic Theory , Manchester Economic Theory Workshop 2024
2014

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- R workshop 2014
- Seminar - Research and Theory Economics, San Luis Potosí, México. 2014
- Workshop – Stochastic Control 2014, Hermosillo Sonora, México. 2014
- Stata workshop 2014
- French-Mexican Meeting on Industrial and Applied Mathematics. Villahermosa, Tabasco, México. 2013
- XI Symposium of Probability and Stochastic Processes. Guanajuato Guanajuato, México. 2013
- 4th Reunion of Stochastic Systems Red in Control. Working day of Control, Evolutionary Games and Middle Camp. Hermosillo, Sonora, México. 2013
- XLV National Congress of the Mexican Mathematics Society. Queretaro, Queretaro. 2012
- National Week of Science and Technology. Zacatecas, Zac. 2006
- Give a cause to the Water. Zacatecas, Zac. 2006
- Teaching science through projects. Guadalajara, Jalisco. 2006
- XV National Congress of Science and Technic. Guadalajara, Jalisco. 2006
- II National Encounter of Mathematical Biology. Saltillo, Coahuila. 2005
- Summer School of Applied Mathematics. Cuernavaca, Mor. 2005
- 12th National Encounter of Teachers of Italian. Morelia, Michoacan. 2005
- Summer school in Cosmology and Astroparticles Physics. Trieste, Italia. 2004
- 1st National Encounter of Epistemology and Mathematics. 2004
- 3rd Workshop – Statics and probabilistic. Guanajuato, Gto. 2004
- V Autumn School in Biology and Mathematics. 2003
- 1st High Class Summer School – Introduction to Quantic Mechanics. 2003
- 1st High Class Summer School – Theory of perturbations. 2003
- 1st encounter of Combinatory Geometrics and Topology. Guanajuato, Gto. 2003
- XXXV National Congress – Mexican Mathematics Society. Durango, Dgo. 2002
- Master Speech – XX Anniversary of the Faculty of Mathematics 2001
- Master Speech - A New Mathematical Millennium 2001
- Workshop – Experimental Center of Mathematics 1999
- 2nd Contest of Creativity, Corroboration and demonstration of Laws (Physics and Chemistry) 1999
- Workshop – Experimental Center of Mathematics 1998

Affiliations/Groups

- Board of professors of Economics and Demography, INSP. 2011-present
- Organizational committee 4th Student Acting Festival – Medium – Superior Level. 2005
- Organizational committee and local support. First International Seminary about the impacts on the remesas in Latin America. Zacatecas, Zac. 2005
- Staff support and guide – 45th International Mathematics Olympics. Merida, Yucatan. 2005
- Member of the H. Advisory University Board. Zacatecas, Zac. 2005

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- Staff support – XVIII Estate Mathematics Olympics. Zacatecas, Zac. 1998-2005
- Student Advisory Member – Mathematics Unit, Electoral University Commission. Zacatecas, Zac 2002
- Representative of Zacatecas State. Mexican Mathematics Olympics. Colima, Col. 2002
- Jury Member – Fifth festival of student acting. Zacatecas, Zac. 2001
- Mexican Association of Italianisms 2000
- Advisory Member. H. Technical Board of the UAZ high school. 1997-1998

Awards and acknowledgments

- State Award for Youth Academic Accomplishment. Zacatecas, Zac. 2005
- Academic distinction and student leadership. Zacatecas, Zac. 2005
- Best in class student Autonomous University of Zacatecas. 2005
- 1st Place – XIX Regional contest of Mathematics and Physics. Zacatecas, Zac. 2001
- 1st Place – XIX Regional Contest of Mathematics and Physics. San Luis Potosi, SLP. 2001
- 1st Place – XVI Regional Contest of Mathematics and Physics. San Luis Potosi, SLP. 1998
- 1st Place – Physics III. Internal Contest. Zacatecas, Zac. 1998
- 1st Place – Mathematics III. Internal Contest. Zacatecas, Zac. 1998
- 1st Place – Physics II. Internal Contest. Zacatecas, Zac. 1997
- 1st Place – Mathematics II. Regional Contest. Zacatecas, Zac. 1997
- 1st Place – Mathematics II. Internal Contest. Zacatecas, Zac. 1997
- 3rd Place – Poetry. Zacatecas, Zac. 1997
- 2nd Place – Mathematics I. Regional Contest. Zacatecas, Zac. 1996
- 1st Place – Mathematics I. Internal Contest. Zacatecas, Zac. 1996

Interests

- Applied Mathematics
- Differential Equations
- Dynamic Systems
- Stochastic Systems
- Game Theory
- Microeconomics
- Optimum Control
- Data Analysis

Computer Skills

- Software: Mathematica, MATLAB, EViews, StatPlus, Stata, SPSS, R
- Scientific Text Processor: LaTeX,, Scientific WorkPlace, Overleaf
- Presentations Software: Beamer

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Languages

- Language Learning Center UAZ – 10th English level completed, 2000.
- Language Learning Center UAZ – 10th French level completed, 2002.
- Language Learning Center UAZ – Russian, 2002-2004.
- Language Learning Center UAZ – Italian, 2005.

Sincerely,

Itza Tlaloc Quetzalcoatl Curiel Cabral