

Oscar Torrealba Rodríguez

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PROFILE

I am a Ph.D. student in Economics interested in combining precise experimental methods with novel computational approaches to study inequality of opportunity and social mobility. My goal is to conduct research that, by applying machine learning and artificial intelligence techniques, measures different sources of inequality (fair and unfair), as well as elicits distributive preferences considering these sources through experimental methods. Ultimately, I aim to provide a social-preferences-based foundation for developing public policy proposals aimed at reducing the observed levels of inequality of opportunity.

EDUCATION

- 2025-2028 **Ph.D. in Economics. El Colegio de México**
Areas of interest: Behavioral Economics, Computational Methods, Distributive Preferences, Inequality of Opportunity.
Thesis Supervisor: Pablo Soto-Mota
- 2014-2016 **Master's in Economics. El Colegio de México**
Thesis: "Wage Gaps and Relative Labor Supply in Mexico: An Analysis by Education Levels and Age Groups"
- 2007-2011 **Bachelor's Degree in Economics and Finance. Universidad Internacional**
Thesis: "Tourism and Economic Growth in Mexico: Contribution to GDP per Capita Growth and Long-Term Relationship (1993–2004)"

TEACHING EXPERIENCE

- 2019-2025 **Universidad Politécnica del Estado de Morelos (UPEMOR)**
Econometrics
Financial Simulation
Financial Markets
Microeconomics
Macroeconomics
- 2018-2025 **Universidad Internacional (UNINTER)**
Analysis of Economic Models
Economic Growth
International Economics
Intermediate Microeconomics
Intermediate Macroeconomics
- 2018-2024 **London School High School**
Economics

PUBLICATIONS

Torrealba-Rodríguez, O. (2024). El peso de las circunstancias en la desigualdad de oportunidades en México: una estimación sobre un conjunto amplio basado en aprendizaje automático. *Sobre México Temas De Economía*, 1(9), 160–195. <https://doi.org/10.48102/rsm.v1i9.141>

Lounis, M., Torrealba-Rodríguez, O., & Conde-Gutiérrez, R. A. (2021). Predictive models for COVID-19 cases, deaths and recoveries in Algeria. *Results in Physics*, 30, 104845. <https://doi.org/10.1016/j.rinp.2021.104845>

Torrealba-Rodríguez, O., Conde-Gutiérrez, R. A., & Hernández-Javier, A. L. (2020). Modeling and prediction of COVID-19 in Mexico applying mathematical and computational models. *Chaos, Solitons & Fractals*, 138, 109946. <https://doi.org/10.1016/j.chaos.2020.109946>

Valdivia Altamirano, W. F., & Torrealba Rodríguez, O. (2014). El turismo en México, aspectos económicos y administrativos. En W. F. Valdivia Altamirano, Y. O. Díaz Bustos, & R. Álvarez Venegas (Eds.), *Enfoques de gestión en el estudio de organizaciones y empresas* (pp. 12–25). Universidad Internacional

POSTER PRESENTATION

Measuring Inequality of Opportunity in Mexico: An Estimation Using Linear Regression and Random Forests.
9th Annual Congress on Economics and Public Policy : SobreMéxico *October 2023*
Ciudad de México, México

DISTINCTIONS

2014-2016 Consejo Nacional de Ciencia y Tecnología (Conacyt)
Scholarship for graduate studies

PROFESSIONAL EXPERIENCE

2018-2019 Head of Academic Department. **Universidad Internacional**

2017-2018 Head of the Department of Economic and Social Analysis. **Secretaría de Desarrollo Social. Gobierno Federal.**

2016-2017 Data Analyst. **NODO Investigación + Estrategia**

SKILLS

Languages	Spanish (Native), English (C1 - TOEFL certified)
Software and programming languages	Stata Python R

REELEVANT CERTIFICATIONS

2025	Toefl iBT Test. Score 99/120 (C1 level), (20/12/2025)
2024	Aptis Home Test: C level in Listening and Reading Skills (24/08/2024)
2023	Certificate in Social Mobility. Centro de Estudios Espinosa Yglesias, A. C. (CEEY)
2021	Certificate in Data Science with Python. Science Research Center. Universidad Autónoma del Estado de Morelos
2021	<u>Temporal Series with Deep Learning (RNN, LSTM) y Prophet.</u> Coursera Project Network
2021	<u>Machine Learning for Temporal Series with ARIMA, SARIMA.</u> Coursera Project Network
2020	<u>Mathematics for Machine Learning: Linear Algebra.</u> Imperial College London
2020	Introduction to Machine Learning. Laboratorio Nacional de Políticas Públicas
2020	Introduction to Python + Data Management. Laboratorio Nacional de Políticas Públicas
2019	Inequality. El Colegio de México and MéxicoX

COURSES ON TEACHING

2019	Foundations of the Competency-Based Education Model. UPEMOR
2021	Strategic Teaching. UPEMOR
2022	Learning Organization. UPEMOR
2023	Microteaching. UPEMOR
2023	Competency-Based Assessment. UPEMOR
2023	Tutor Training. UPEMOR
2024	Design of Assessment Instruments. UPEMOR

REFERENCES

Dr. Pablo Soto-Mota

Assistant Professor
Centro de Estudios Económicos.
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M.Sc. Oscar Alberto Fernández Constantino

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Dr. William Fernando Valdivia Altamirano

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