Julián Jiménez-Cárdenas

julianorla7@gmail.com   Curriculum Vitæ   github.com/julianjica

I am a mathematician and physicist specializing in applied mathematics, dynamical systems, and geometric methods, with a focus on organizational strategy and economics. I design rigorous mathematical models to study firm behavior, competitive dynamics, and hierarchical decision-making, combining analytical precision with practical insights.

EDUCATION

Universidad de los Andes   **Bogotá, Colombia**
M. Sc. in Mathematics   *2022*
Thesis title: Elements of sub-Riemannian geometry and its applications

Fundación Universitaria Konrad Lorenz   **Bogotá, Colombia**
B. S. in Mathematics   *2020*

Universidad Nacional de Colombia   **Bogotá, Colombia**
B. S. in Physics   *2020*

PUBLICATION LIST

2. *Dynamic competition for customer memberships*   2024
   Cristian Chica, **Julian Jimenez-Cardenas**, Jorge Tamayo
   Journal of Economics & Management Strategy.

1. *About the restricted three-body problem with the Schwarschild de Sitter potential*   2021
   John A. Arredondo, **Julian Jimenez-Cardenas**
   Nonlinear Dynamics and Systems Theory, Volume 21, Number 2.

WORK IN PROGRESS

4. *The Endogenous Formation of Corporate Boundaries: Alignment, Heterogeneity, and Synergies in Multibusiness Firms*   2025
   Julian Jimenez-Cardenas, Jorge Tamayo

3. *AI, Knowledge Hierarchies, and the Future of Organizational Design*   2025
   Ana Ramos, **Julian Jimenez-Cardenas**, Jorge Tamayo

2. *Strategy for Multiunit Organizations*   2025
   Julian Jimenez-Cardenas, Jorge Tamayo

1. *Generalists: on the organizational benefits of broad skilling*   2025
   Achyuta Adhvaryu, **Julian Jimenez-Cardenas**, Anant Nyshadham, Jorge Tamayo

EMPLOYMENT

Good Business Lab   **July 2025 — Present**
Senior Researcher   *CDMX, Mexico*
- Supervisor: Prof. J. Tamayo.

Harvard University   **Nov 2021 — June 2025**
Research Assistant, Business School   *Boston, MA*
- Supervisor: Prof. J. Tamayo.

Fundación Universitaria Konrad Lorenz   **2023 — 2025**
Assistant Teacher, Facultad de Matemáticas   *Bogotá, Colombia*
- Courses: Parallel Computing, Mathematical Logic & Linear Algebra.

Universidad de los Andes   **2020 — 2022**
Assistant Teacher, Facultad de Ciencias   *Bogotá, Colombia*
- Courses: Integral Calculus, Differential Equations & Basic Mathematics.

SKILLS

Programming Languages	Python, C/C++, Bash & Java
Technical Computing	Mathematica & Matlab
Communication	Spanish & English (IELTS Academic: 7.5)
Other	Git, LaTeX & HTML

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HONORS, SCHOLARSHIPS AND AWARDS

Graduate Fellowship, (Beca de Asistencia Graduada) Universidad de los Andes.   2020 — 2022
Award for best undergraduate students, ECAES Standarized Test
   Ministerio de Educación Nacional (Colombia). Top 1% of undergraduate students of Colombia.   2018, 2020
Distinguished Young Investigator Science Award, Fundación Universitaria Konrad Lorenz.   2018
Outstanding Student Scholarship, Universidad Nacional de Colombia. Top 1% of my class.   2015

ACADEMIC EVENTS

10. *14th International Olympiad on Astronomy and Astrophysics*   2021
    Universidad Antonio Nariño, Bogotá, Colombia.
    Role: Jury.

9. *XX School in Mathematics*   2021
   Universidad Nacional Autónoma de México, Morelia, México.
   Courses taken: metric spaces and groups, hyperbolic geometry, metric spaces of negative curvature.

8. *Mathematics by Students*   2018
   Universidad de los Andes, Bogotá, Colombia.
   Talk presented: Restricted Three Body Problem under the Schwarzschild de Sitter Potential.

7. *III Winter School in Mathematics*   2017
   Universidad Nacional Autónoma de México, Oaxaca, México.

6. *III International Conference on Applied Mathematics and Informatics*   2017
   Universidad del Valle, Isla de San Andrés, Colombia.
   Talk presented: Simulations on N-bodies with Relativistic Corrections.

5. *XVII Summer School in Mathematics*   2017
   Universidad Nacional Autónoma de México, Morelia, Mexico.

4. *XIX National and XIII International Meeting of Investigation Groups*   2016
   Universidad Simón Bolívar, Cúcuta, Colombia.
   Talk presented: Simulations of the N-Body Problem.

3. *Mathematics by Students*   2015
   Universidad de los Andes, Bogotá, Colombia.
   Poster presented: Kepler's Problem and Two Body Problem.

2. *II Worshop on Astronomy.*   2015
   Universidad de los Andes, Bogotá, Colombia.
   Poster presented: Astronomy available for everyone.

1. *8th International Olympiad on Astronomy and Astrophysics.*   2014
   Universitatea Stefan Cel Mare, Suceava, Romania.

SERVICE

- Editor of Paskín Matemático.   2020 – 2024
  Fundación Universitaria Konrad Lorenz.

- Professor of the one week course "Python Programming Oriented to Scientific Computing".   2018
  Fundación Universitaria Konrad Lorenz.

- Professor of the one week course "Introduction to Category Theory".   2018
  Fundación Universitaria Konrad Lorenz.

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ONLINE COURSES

- The Hong Kong University of Science and Technology Python and Statistics for Financial Analysis.   2025
  The Hong Kong University of Science and Technology.

- Introduction to Enumerative Combinatorics.   2020
  National Research University Higher School of Economics.

- Game Theory.   2020
  Stanford University, University of British Columbia.

- Bayesian Statistics: Techniques and Models.   2020
  University of California, Santa Cruz.

- Econometrics: Methods and Applications.   2020
  Erasmus University Rotterdam.

- Machine Learning.   2019
  Stanford University.