

# Julián Jiménez-Cárdenas

jo.jimenezc1@uniandes.com

Curriculum Vitæ

github.com/julianjica

I am a mathematician and physicist interested in dynamical systems theory, applied mathematics, machine learning, (Riemannian and differential) geometry and economy. In my current work, I employ geometric tools to analyze the behavior of firms competing in the market.

## EDUCATION

<b>Universidad de los Andes</b> <i>M. Sc. in Mathematics</i> Thesis title: <i>Elements of sub-Riemannian geometry and its applications</i>	<b>Bogotá, Colombia</b> 2022
<b>Fundación Universitaria Konrad Lorenz</b> <i>B. S. in Mathematics</i>	<b>Bogotá, Colombia</b> 2020
<b>Universidad Nacional de Colombia</b> <i>B. S. in Physics</i>	<b>Bogotá, Colombia</b> 2020

## PUBLICATION LIST

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

## EMPLOYMENT

<b>Harvard University</b> <i>Research Assistant, Business School</i> • Supervisor: Prof. J. Tamayo.	<b>Nov 2021 — Present</b> Boston, MA
<b>Fundación Universitaria Konrad Lorenz</b> <i>Assistant Teacher, Facultad de Matemáticas</i> • Courses: Parallel Computing, Mathematical Logic & Linear Algebra.	<b>2023 — Present</b> Bogotá, Colombia
<b>Universidad de los Andes</b> <i>Assistant Teacher, Facultad de Ciencias</i> • Courses: Integral Calculus, Differential Equations & Basic Mathematics.	<b>2020 — 2022</b> Bogotá, Colombia

## SKILLS

<b>Programming Languages</b>	Python, C/C++, Bash & Java
<b>Technical Computing</b>	Mathematica & Matlab
<b>Communication</b>	Spanish & English (IELTS Academic: 7.0)
<b>Other</b>	Git, $\LaTeX$ & HTML

## HONORS, SCHOLARSHIPS AND AWARDS

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

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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 Workshop 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

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- Editor of [Paskín Matemático](#). 2020 – Present  
**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.**

## ONLINE COURSES

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- 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.**