

# Curriculum Vitae

## Personal Information

- **Name:** Dodovrosky Francisco Medrano Rocha
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## Education

- 2024: Course in Generative Artificial Intelligence (UNIR)
- 2023: Course in Teaching Competencies for Virtual Education (UNIR)
- 2015: Diploma in Higher Education, Competency-Based Approach, Bolivian Catholic University, Cochabamba, Bolivia.
- 2012–2014: Master of Science in Mathematics, The University of Geneva, Geneva, Switzerland.
- 2009–2012: Bachelor of Science in Mathematics, The University of Geneva, Geneva, Switzerland (Highest GPA: 5.97/6).
- 2008–2009: Preparatory Year, Simón I. Patiño Foundation, Switzerland.
- 2006: High School Diploma in Humanities, Hispano Boliviano, Cochabamba, Bolivia.

## Master's Thesis

**Title:** Courbes elliptiques et cryptographie

**Supervisors:** Professors Anders Karlsson & Michelle Bucher-Karlsson

**Description:** This master's thesis focuses on the theory of elliptic curves, primarily defined over finite fields and their respective applications in cryptography.

## Experience

### Teaching

- **USIP:** Numerical Calculus, Analysis I, Analysis II, Geometry, Group Theory, Axiomatic Logic, Measure Theory, Galois Theory, Algebraic Number Theory, Number Theory, Probability and Statistics I, Symbolic Logic, Linear Algebra, Operations Research I, Integral Transforms, Probability Theory, Abstract Algebra.
- **Unitepc:** Calculus II (Winter 2017 course for Accounting and Business Engineering), Calculus I (Accounting and Business Engineering).
- **UPB:** Pre-University Mathematics, Engineering Mathematics I, II, and III (Calculus I, II, and III), Numerical Methods, Mathematics I, II, and III (Mathematics for Business Sciences I, II, and III), Formal Logic (Systems Engineering), Differential Equations, Linear Algebra, Probability and Statistics, Statistics II.
- **Postgraduate Teaching:** Integral Faculty of Ichilo: Mathematical Analysis III, Geometry, and Topology.

### Positions

- Part-time Professor at UPB (2017-2022)
- Full-time Professor at UPB (2022-present)

### Awards

- 2005: Creative Solution Medal, UMSS Math Olympiad.
- 2005–2006: Consecutive First Place, Mathematics Category, National Science and Technology Fair of the Experimental Center Bolivia (CEB).
- 2008: Scholarship from the Simón I. Patiño Foundation.

### Conferences and Seminars

- 2016: Speaker, XIX Bolivian Mathematics Congress “Génesis II”. Presentation on differential equations and variational calculus.
- 2018: Speaker, XXI Bolivian Mathematics Congress “Génesis III”. Presentation on the fundamentals of mathematical analysis.

### Software Skills

Matlab, Scilab,  $\text{\LaTeX}$ , OpenOffice, Mac OS X, Microsoft Windows, Maple, FL Studio.

## Languages

- **Spanish:** Native language.
- **French:** Advanced (fluent in conversation and writing).
- **English:** Intermediate (good reading comprehension).

## Interests

- Computer-based music composition.
- Pure and applied mathematics.
- Languages.
- Sports.