

CURRICULUM VITAE

Personal data

Axel Gabriel Rodríguez Zárate
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Education

- Bachelor degree in Mathematics from the University of Guanajuato, in collaboration with the Centro de Investigación en Matemáticas (CIMAT, A.C.). (Since June 2021, expected to graduate in December 2025)

Languages

- Spanish, native.
- English, fluent and comfortable holding casual and technical conversations.

Academic interests

- Mathematical Physics (Elementary Particle Physics, Field theory).
- Differential Geometry.

Academic activity

- Teaching Assistant, University of Guanajuato, Department of Mathematics.
 - Class: Introduction to Computer Science.
 - Professors: Dr. Alonso Ramírez Manzanares, Dr. Jean-Bernard Hayet. 2022-08 / 2022-12.
- Teaching Assistant, University of Guanajuato, Department of Mathematics.
 - Class: Introduction to Computer Science.
 - Professors: Dr. Alonso Ramírez Manzanares, Dr. Jean-Bernard Hayet. 2023-08 / 2023-12.
- Teaching Assistant, University of Guanajuato, Department of Mathematics.
 - Class: Calculus II.
 - Professor: Dr. Ehyter M. Martín González. 2024-01 / 2024-06.
- Teaching Assistant, University of Guanajuato, Department of Mathematics.
 - Class: Calculus I.
 - Professor: Dr. Ehyter M. Martín González. 2024-06 / 2024-12.
- Summer stay in CIMAT, A.C. (Epidemiologic modeling)
 - Professors: Dr. Uvencio José Giménez Mujica, Dr. Oziel Gómez Martínez. 2024-06 / 2024-08

- Teaching Assistant, University of Guanajuato, Department of Mathematics.
 - Class: Calculus IV
 - Professor: Dr. Luis Hernández Lamóneda. 2025-01 / 2025-06
 - Bibliography: Spivak, Calculus on Manifolds. Marsden, Vector Calculus. Arnold, Mathematical Methods of Classical Mechanics.

Grants and scholarships.

- Academic excellence stipend by Centro de Investigación en Matemáticas (CIMAT, A.C.). 2021-06 / 2025-06.
- Teaching assistant stipend by Centro de Investigación en Matemáticas (CIMAT, A.C.). 2022-08 / 2022-12. 2023-08 / 2023-12. 2024-06 / 2025-06
- Lodging and food by UNAM Department of Mathematics, Juriquilla, for the Summer School 2024.

Other activity

- Summer School 2024, UNAM Juriquilla. Biomathematics 2024-06
- Summer School 2024, CIMAT. Low-dimensional topology and other selected topics.
- Summer School 2024, CINVESTAV. Selected Analysis topics.
- MSc level class in Fourier Analysis (2025/06 - 2025/12) at CIMAT.