

# Emerson Wilfredy Torres Benitez

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## EDUCATION

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2019-2024    **Bachelor's Degree in Mathematics**  
University of El Salvador – Eastern Multidisciplinary Faculty  
*Graduated with Honors (CUM Honorífico)*

## EXPERIENCE

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**Math and Science Teacher** · Full time Apr. 2024 - Nov. 2024  
*Christian School Dr. Juan Allwood Paredes* 8 Months

As a full-time teacher, I taught Mathematics and Science to upper primary and high school students, covering a variety of academic levels and performing tasks such as:

- Planning and instruction: Designed lessons aligned with the curriculum, using strategies to reinforce understanding.
- Evaluation and monitoring: Implemented quizzes, worksheets, and assignments to assess progress.
- Virtual platform management: Managed Google Classroom activities, supporting hybrid learning with quizzes, guides, and assignments.
- Teaching coordination: Participated in pedagogical meetings and school activities to improve education quality.

**Educator** · Temporary Contract Apr. 2024 - Jun. 2024  
*International Consortium for Development in Education (CIDE) INC. El Salvador Branch* 3 Months

The Departmental Saturday Academies (ASD) are a program of the Ministry of Education in partnership with CIDE, aimed at strengthening scientific and mathematical competencies in outstanding students from public schools. I worked as a Math teacher for Ninth Grade (Level 3), performing the following tasks:

- Curriculum development: Delivered lessons focused on logical thinking and practical problem-solving.
- Teaching materials: Created learning and assessment guides aligned with program standards.
- Active strategies: Promoted problem analysis, collaboration, and discussion to encourage critical thinking.
- Evaluation: Monitored student performance and provided additional support when needed.

**Model Educator** · Temporary Contract Mar. 2023 - Dec. 2023  
*Jóvenes Talento Program, University of El Salvador* 10 Months

The Jóvenes Talento Program (PJT) aims to identify and train high-performing students in Mathematics and Science. One of its components is the Saturday Academy, an intensive training space offering specialized classes. Within this academy, I had the privilege of serving as a Model Educator in Mathematics, teaching Level III students (Seventh grade) and performing the following tasks:

- Specialized teaching: Delivered classes focused on logical reasoning and advanced problem-solving.
- Educational materials: Designed lesson plans, exams, and assignments to structure learning.
- Evaluation: Graded tests and assignments, providing detailed feedback.
- Virtual platforms: Used Moodle and Microsoft Teams to manage resources and enhance learning.
- Academic monitoring: Prepared monthly reports on student performance.

## LANGUAGES

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- **Spanish:** Native language.
- **Portuguese:** Basic level of oral/written comprehension and expression (learning via online resources).
- **English:** Intermediate (CEFR: B1) (constantly improving fluency through online resources).  
Certification: TOEFL iBT – Score: 71 (Reading: 12, Listening: 18, Speaking: 21, Writing: 20)

## ADDITIONAL TRAINING

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2025    **ICMAM Latin America Satellite Conference on Differential Geometry 2025**, ICMAM Latin America  
Conference focused on bringing together researchers to present recent results and discuss open problems in differential geometry. The event aimed to foster interaction among participants from different academic levels and promote the exchange of ideas in this field.  
*Total training: 10 hours*

- 2025 **Research School in Geometry at Cuernavaca**, Cuernavaca Unit of the Institute of Mathematics, UNAM  
Two-week intensive school organized by the Cuernavaca Unit of the Institute of Mathematics at UNAM, with activities aimed at introducing advanced students to research topics in geometry.  
*Total training hours: 50 hours*
- 2024 **CIMPA Research School El Salvador: Submanifold Theory and Geometric Analysis**, University of El Salvador  
CIMPA Schools are programs organized by CIMPA in developing countries, focused on introducing recent research in Mathematics, Computer Science, and Theoretical Physics, aimed at students and research-oriented teachers  
*Total training hours: 50 hours*
- 2024 **EMALCA Costa Rica**, University of Costa Rica  
The Latin American and Caribbean School of Mathematics (EMALCA), an initiative of UMALCA, aims to promote the development of mathematics in the region by connecting mathematicians and researchers with undergraduate and graduate students, with the support of CIMPA  
*Total training hours: 80 hours*
- 2024 **English to Connect Training Project – Level B2**, ITCA FEDEPADE – Ministry of Economy  
English2Connect is a program that trains young Salvadorans in English, improving their proficiency to B1 and B2 levels, and offers job opportunities upon completion.  
*Total training hours: 120 hours*
- 2023 **First School of Applied Mathematical Modeling**, University of El Salvador  
The First School of Applied Mathematical Modeling, taught by professors from the Catholic University of Maule, Chile, lasted for 3 days. It focused on the use of mathematics as a tool to model natural phenomena.  
*Total training hours: 24 hours*
- 2023 **EMALCA El Salvador**, Universidad of El Salvador  
*Total training hours: 50 hours*
- 2022 **CIMPA Research School El Salvador: Algebraic Methods in Topology**, University of El Salvador  
*Total training hours: 50 hours*
- 2022 **Introduction to Data Science with Python**, Mathematicians Association of El Salvador (AMATES)  
It was a virtual workshop held from March 28 to April 1, 2022, via ZOOM, focused on data analysis with Python using the Pandas library.  
*Total training hours: 8 hours*

## TECHNICAL SKILLS

- **Programming languages:** Python - Level: Basic | C - Level: Intermediate.
- **Tech skills:** LaTeX | GeoGebra | Microsoft Office Suite | Microsoft Teams | Moodle | Google Docs | Google Sheets | Google Forms.
- **Other:** FL Studio | Reaper | Adobe Photoshop | Inkscape | ShotCut | Wondershare Filmora.





## RESEARCH INTEREST





- Algorithms
- Theory of Computational Complexity
- Theory of Computation
- Graph Theory
- Combinatorial Optimization
- Linear Optimization





## ACKNOWLEDGMENTS

- 2024 **Graduated with Honors (CUM Honorífico)**, University of El Salvador  
The Honorary CUM recognizes students with a cumulative GPA  $\geq 3.2$ , with no course repetitions or sanctions. Its benefits include exemption from graduation fees, access to graduate scholarships, and the possibility of graduating without a thesis.

## REFERENCES

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