

Emerson Wilfredy Torres Benitez

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EDUCATION

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

EXPERIENCE

- 2023 **Model Educator** – Jóvenes Talento Program, University of El Salvador
The Jovenes 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.
- Total hours worked: 90 hours.**
- 2024 **Educator** – International Consortium for Development in Education (CIDE) INC. El Salvador Branch
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.
- Total hours worked: 45 hours.**
- 2024 **Math and Science Teacher** – Christian School Dr. Juan Allwood Paredes
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.
- Total hours worked: 1209 hours.**

LANGUAGES

- **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

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

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|--------------------------------------|-------------------------|-----------------------|
| • Algorithms | • Theory of Computation | • Quantum Computing |
| • Theory of Computational Complexity | • Graph Theory | • Linear Optimization |

ACKNOWLEDGMENTS

2024 **Graduated with Honors (CUM Honorífico)**, University of El Salvador

The Honorary CUM is an award given to students with a CUM ≥ 8.0 , without course repetitions or sanctions. It is difficult to obtain because it requires consistent academic excellence and passing all courses on the first attempt. In the Bachelor's Degree in Mathematics, it is even more challenging due to the complexity of the courses and the high level of rigor. Its benefits include exemption from graduation fees, access to graduate scholarships, and the possibility of graduating without a thesis.

REFERENCES

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