

Edwin Anzures

Mathematician

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Personal website

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About me

I am Edwin Anzures. I am interested in mathematics, programming, and the computational implementation of mathematical models. During my years of education I had the opportunity to fully engage in the study of highly abstract yet applicable mathematics. For instance, I worked on topics such as Partial Differential Equations, Computational Implementation of the Finite Element Method for differential equations, Probability, and Stochastic Processes.







I consider myself a well-read person, but I am always looking for something new outside my comfort zone. I hold self-imposed high-quality standards in multiple dimensions of my life.

Despite my academic background and focus on higher education, I am highly interested in immersing myself in non-academic projects where I can apply my mathematical and programming knowledge.

Languages

 Spanish ●●●●●
 English ●●●●●
 Française ●●●●●

Technical Skills

 Github
 Matlab
 Python
+(machine learning libraries)
 R (programming language)
 LaTeX
 Java

Work Experience

- 2024- **Part-time Lecturer in Advanced Probability** Universidad Nacional Autónoma de México (UNAM)
I aimed to equip students with the essential skills and knowledge required for their academic and professional careers in quantitative fields.
- 2024- **Java Internship Training** Tech Mages
Training projects aiming to achieve industry-recognized certifications
- 2020-2023 **Teaching Assistant** Universidad Nacional Autónoma de México (UNAM)
Grade homework assignments as well as prepare recitation lectures of several advanced mathematics courses.

Education

- 2023 **Graduate studies in Mathematical Sciences** Universidad Nacional Autónoma de México (UNAM)
Graduated with honors, 97/100 average score.
- 2020 **Undergraduate studies in Mathematics** Universidad Nacional Autónoma de México (UNAM)
Graduated with honors, 99/100 average score.

Awards and Recognitions

- 2019 **Grant to attend the Seminario Itinerante de teoría de representaciones CCM-FC-IM UNAM**
Instituto de Matemáticas de la UNAM, Sede Oaxaca de Juárez
- 2019 **Grant to attend the Seminario Itinerante de teoría de representaciones CCM-FC-IM UNAM**
Instituto de Matemáticas de la UNAM, Sede Oaxaca de Juárez
- 2020 **Graduation grant awarded by UNAM**
Instituto de Matemáticas de la UNAM
- 2023 **Grant to attend the Inaugural Event of the Mexican Network of Biology and Mathematics and the Probability Weekend**
Instituto de Matemáticas UNAM Unidad Cuernavaca, Centro de Ciencias Genómicas UNAM
- 2024 **Grant to attend the 6th edition of the tri-annual conference on Stochastic Processes in Evolutionary Biology**
Centre International de Rencontres Mathématiques, Marseille (France)

Certifications

- 2023 **Basic Concepts for Gender Equality**
Licencia
- 2023 **Artificial Intelligence and Deep Learning with Python**
Licencia

Programming Projects

- Matlab **FEM implementation**
The Lagrange and Crouzeix-Raviart finite element methods (first order) are used to approximate the weak solution to the Poisson problem in the interval and square with Dirichlet boundary conditions. The input is the given function f , and the output includes convergence tables in Lebesgue L^2 distance and Sobolev H^1 distance with their respective convergence rates.
- Python **Time Series Forecasting**
This project aims to use machine-learning techniques (train an xg-boost regression model) to predict the values of the measurements of the Southern Oscillation Index (SOI) for the following few months.