Eugenio D. Macias

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EDUCATION

Brown University   Aug. 2022 – May 2026
MS Applied Mathematics (*Concurrent*) , *BS* Applied Mathematics—Computer Science   ***Providence, RI***
- **GPA:** 4.0
- **Relevant Coursework**: Multivariable Calculus, Linear Algebra, Theory of Probability, Statistics I-II, Mathematical Econometrics I-II, ODE's, PDE;s, Algebraic Topology, Abstract Algebra, Real Analysis, Complex Analysis, Functional Programming, Data Structures & Algorithms, Computer Systems, AI, Investments II, Macroeconomics II.
- **Clubs**: Quant Trading at Brown, Forecasting Club, Chess Club

United World College ($40,000/year scholarship), **IB:** 42/45   ***Bosnia & Herzegovina*** | 2020 – 2022

EXPERIENCE

Citi, <u>Quantitative Analyst Intern (*incoming*)</u>   ***New York City*** | Jun. 2025 – Aug. 2025

DE Shaw & Co., <u>Fellowship</u>   ***New York City*** | Apr. 2024 – May 2024
- Engaged in in-depth discussions on quantative trading exploring statistical and machine learning techniques
- Explored innovative projects in software development for financial applications, emphasizing high-frequency trading systems

Bridgewater Associates, <u>Investment Immersion Program</u>   ***Westport, CT*** | Feb. 2024 – Mar. 2024
- Participated in markets sessions, and case-studies led by senior investment associates, engineers, and quantitative researchers
- Learned about alpha and beta engines, as well as **ML** algorithms for financial modelling and automatized investments

Point 72 & Correlation One, <u>Data Scholar</u>   ***Remote*** | Apr. 2024
- Participated in data-science case studies using **Pandas**, **Matplotlib** to model future revenue of different airlines
- Intensive training program focused on leveraging data science, alternative data sources, and AI/ML within hedgefund industry

Buddywise, <u>Founder's Associate Intern</u>   ***Berlin, Germany*** | May 2023 – Jul. 2023
- Oversaw researching and implementing datasets into the data pipeline for the ML, Computer Vision and AI algorithms
- Secured a $50,000 Mixpanel credits award to conduct comprehensive analysis of Buddywise UI metrics and KPI's

PROJECTS

Research: *Fourier Analysis and Laplace's Equation*
- Wrote a 50-page research paper in Real Analysis and Linear Algebra: complex-real function theory, convergence criteria
- Explored the importance of Fourier Series to Laplace's 2-D Equation solution space with 4 Boundary Dirichlet conditions

Personal Portfolio (*HTML, CSS, JavaScript, GitHub Pages*)
- Designed and developed a personal portfolio website using **HTML**, **CSS** for styling, and **JavaScript** for special effecrs.
- Hosted the website on **GitHub** Pages for continuous deployment and accesibility to different devises

Graph-Optimizer Algorithm (*Python, Java*)
- Created a graph algorithm that optimizes edge-paths based on cost, distance, time- efficiency, and customizable parameters
- Employed graph structure algorithms like **Dijkstra**, **BFS**, and **DFS**. Tested with graphs with 500+ vertices and edges

Game-AI (*Pyhton, ReasonML*)
- Implemented NXN game calculator and module for MxN-board dimensions using matrix representations, heuristic algorithms
- Assigned numerical values to a **Mini-Max** Algorithm allowing the AI to outperform 100% of human moves

AWARDS

- **Citadel Invitational Terminal 2024:** Selected to participate in the Trading Hackathon hosted by Citadel & Citadel Securities,
- **PUTNAM 2023**: Represented Brown in leading university-level mathematics competition (**top 20% scorer**)
- **IYMC 2022**: Obtained the **Silver Medal** in the mathematics open category 18+ | **Special Honour** (2021)
- **STEM Olympiad** 2022: **1st place** in the Math-Geo-Tech National Exam (BiH) | **13th place** in the Global Ranking (4000+ students)
- **Shelby Davis Scholar**: **Full scholarship** award for undergraduate studies at Brown University
- **SBFS 2023** (Brown): Exploration award to learn from (VC, IB, PE) financial analysts working in NYC
- **GSSA 2024** (Brown)**: Exploration award** in Berlin and Leipzig to study cultural dynamics of East & West Berlin
- **GFA**: Secured **2nd & 3rd place** in the National Classical Guitar Competition in Mexico. GFA in USA

SKILLS & INTERESTS

Skills: Proficient in Excel, PowerPoint, Word. **Spanish** (native), **English** (bilingual), **German** (B1), **French** (B1)
Programming Tools: **Python, Java, C, C++, R**, LaTex, STATA, ReasonML, Racket, Docker, GitHub, VS Code
Specializations: Applied Data Science (Python) (**IBM**), Capital-Options (**Akuna Capital**)
Interests: Chess (**1940 ELO**), Classical Guitar, Travelling the World (trying all food).