

# MIGUEL ANGEL BRAVO MARTINEZ DEL VALLE

mbravomartinez0754@sdsu.edu | (513) 291-9795 | San Diego, CA 92115 | LinkedIn | Personal WebPage

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## EDUCATION

<b>San Diego State University</b> , <i>College of Arts and Letters</i> , San Diego, California	August 2023 - May 2025
Master's Program in Big Data Analytics	GPA: 3.91
<b>Miami University</b> , <i>College of Engineering and Computing</i> , Oxford, Ohio	August 2022 - May 2023
Foreign Exchange Program	GPA: 3.84
<b>University of Málaga</b> , <i>Málaga</i> , Spain	September 2018 - May 2023
Degree in Electronics, Robotics and Mechatronics Engineering	GPA: 7.8/10

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## PROFESSIONAL EXPERIENCE

<b>iCharm - SDSU Climate Informatics Lab</b> , San Diego State University, <i>CA</i>	June 2024 - Present
Research Assistant <i>[Paid Position]</i>	
<ul style="list-style-type: none"><li>Helping to develop functions, tools and Data Visualizations components using Python, JavaScript [React] and API Frameworks. <i>[Full Stack Application Developer]</i></li><li>Processing structured and unstructured Big Climate Data repositories stored in the cloud and building data pipelines to manage it.</li></ul>	
<b>CodeGPT - AI4Business</b> , San Diego State University, <i>CA</i>	January 2024 - May 2024
Research Assistant	
<ul style="list-style-type: none"><li>Conducted a literature review on the latest pre-training techniques for programming and natural languages, union the integration of models like CodeBERT, GraphCodeBERT, and UniXCoder into the Code Search project.</li><li>Enhanced code search performance by applying advanced techniques from Large Language Models (LLMs) and continually incorporating new findings to improve encoding efficiency and semantic understanding.</li></ul>	
<b>Center for Information Convergence and Strategy</b> , San Diego State University, <i>CA</i>	August 2023 - May 2024
Research Assistant	
<ul style="list-style-type: none"><li>Analyzed spatiotemporal data from agricultural watersheds using the Tri-Space approach to study nutrient dynamics and eutrophication from the Agricultural Catchments Programme dataset in Ireland.</li><li>Conducted multivariate and multitemporal analyses, focusing on chemical parameter correlations, while ensuring data integrity and reliability through advanced cleaning and processing techniques in R.</li></ul>	
<b>HorstSort II - Smart Campus</b> , University of Málaga, <i>Spain</i>	March 2022 - June 2022
Engineering Intern	
<ul style="list-style-type: none"><li>Led the integration of IoT technology into the Science Teaching Garden for real-time monitoring of environmental parameters (temperature, humidity, and light). Developed and implemented a wireless sensor system using ESP8266 and set up remote control via MQTT and NodeRed, with Telegram as a user interface for remote updates and control.</li><li>Authored and defended a research paper summarizing project objectives, observations, methods, and conclusions. Successfully presented the thesis to the examination board as part of my degree in Electronics, Robotics, and Mechatronics Engineering.</li></ul>	

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## AWARDS AND INVOLVEMENT

<b>Western Users of SAS and Open-Source Software [WUSS] Conference Scholarship</b>	September 2024
<ul style="list-style-type: none"><li>Awarded the Student Scholarship and presented on Machine Learning <i>[Flight Delay Analysis and Prediction]</i></li></ul>	
<b>International Student Exchange Program Scholarship</b> , <i>ISEP Organization</i>	August 2022 - May 2023
<ul style="list-style-type: none"><li>Highly competitive ISEP scholarship awarded based on academic merit, covering housing, tuition, and meals, along with a monthly stipend, allowing me to spend a year studying at Miami University</li></ul>	
<b>Honorary Scholarship</b> , <i>Sagrado Corazon de Jesus</i>	June 2018
<ul style="list-style-type: none"><li>Prestigious recognition given to outstanding students, awarded for exceptional academic performance in high school</li></ul>	

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## RELEVANT SKILLS

**Languages:** Spanish (Native), English (Advanced)

**Programming:** Python, HTML, CSS, React, JavaScript, SQL, C++, Java, ROS, NodeRed, R

**Technical Skills:** Computer programming languages, Financial management

**Interests:** Cryptocurrencies, Stock Market, Artificial Intelligence, Data Science

**Aptitudes:** Communication, Collaboration, Attention to Detail, Empathy, Multitasking, Positivity, Problem-Solving