Micky D. Santiago-Zayas mdsantia@iastate.edu

Website: mdsantia.github.io/ | GitHub: github.com/mdsantia/ | LinkedIn: Micky Santiago-Zayas

Iowa State University; Ames, Iowa	Aug 2024 – Current
Post-Baccalaureate in Mathematics	GPA TBD
Purdue University; West Lafayette, Indiana	July 2020 – May 2024
BS in Mathematics and Computer Science	3.59 GPA
Polytechnic University of Puerto Rico; San Juan, Puerto Rico	Nov 2018 – Oct 2019
High School Dual-Enrollment	3.67 GPA
Work	
Pre-Calculus—Teaching Assistant	Aug 2024 – Current
Iowa State University, MATH 1430	
∂ Teach multiple sections of weekly recitations with quizzes.	
∂ Grading and office hours are also part of the weekly responsibilities.	Aug 2022 May 2024
Differential Equations—Teaching Assistant	Aug 2022 – May 2024
Purdue University, MA 366	
Teach weekly sections for problem solving techniques with DEQs software.	
Obscussing potential solutions that allow the students to think critically.	
 ∂ Solving a wide range of applicable problems of estimation in the real world. ∂ Creditor weekly Labor 	
∂ Grading weekly Labs. Emerging Leaders Science Scholar Mentor	Aug 2021 – May 2022
Purdue University	•
 ∂ Lead three incredible minority freshmen in Mathematical fields to adapt to college life. 	
 ∂ Hold weekly meetings to ensure their mental and academic well-being. 	
Intro to Research—Grading Assistant	July 2021 – Aug 2021
Purdue University, HONR 299	
∂ Responsible for weekly office hours and grading weekly evaluations during the	
summer course of incoming freshmen.	
Research Experience	
Alternative Artificial Intelligence	June 2023 – Aug 202
Institute of Pure and Applied Mathematics (IPAM)	<u> </u>
∂ Team project in the Research of Industrial Projects for Students (RIPS).	
∂ Worked on an alternative artificial intelligence framework through particle methods.	
∂ Trained neural networks that could recreate the behavior of our alternative algorithm.	
∂ These methods were also run in Nvidia's Omniverse for Digital Twin machine learning.	
∂ RIPS Projects Day presentation sharing the main achievements of the project.	June 2022 – Sep 202
Random Walks of Almost Leinert Sets	
Purdue University	
∂ Weekly research group presentations.	
∂ We expanded and estimated random walk studies on semi-commutable spaces.	
∂ Built probability bound functions that accounted for the new possible walks from commutative spaces.	
∂ MATLAB code and algebraic analysis to corroborate our hypotheses.	
∂ Multiple presentations in LSAMP 2022 Summer Conference, Purdue 2022	
Undergraduate Conference, and Math Undergrad Presentation Night 2023.	
Undergraduate Conference, and Math Undergrad Presentation Night 2023. Scholarships and Awards Purdue's Dean's List	July 2020 – May 202

July 2020 – May 2024

July 2020 - May 2024

Jan 2022

Purdue Semester Honors

BoilerMake Hackathon Participant

Emerging Leaders College of Science Scholarship