Micky D. Santiago-Zayas
mdsantia@iastate.edu
Website: mdsantia.github.io/ | GitHub: github.com/mdsantia/ | LinkedIn: Micky Santiago-Zayas

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Academic Background	
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	3.73 GPA
Work	
Pre-Calculus-Graduate 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.	
Differential Equations-Teaching Assistant	Aug 2022 – May 2024
Purdue University, MA 366	
∂ Teach weekly sections for problem solving techniques with DEQs software.	
∂ Discussing potential solutions that allow the students to think critically.	
∂ Solving a wide range of applicable problems of estimation in the real world.	
∂ Grading weekly Labs.	A 2021 NA 2022
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.	July 2021 – Aug 2021
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 2023
Institute of Pure and Applied Mathematics (IPAM)	
∂ 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.	T 2022 C 2022
∂ RIPS Projects Day presentation sharing the main achievements of the project.	June 2022 – Sep 2022
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.	
Membership, Scholarships and Awards	

Membership, Scholarships and Awards	
Math Alliance	Aug 2023 – Current
Purdue's Honors College	July 2020 – May 2024
Emerging Leaders College of Science Scholarship	Aug 2020 – May 2024
Kinesis Scholars Scholarship	Aug 2020 – May 2024
Summer Stay Scholarship	May 2021 – Aug 2021
LSAMP Researcher	June 2022 – Aug 2022
BoilerMake Hackathon Participant	Jan 2022