## Micky D. Santiago-Zayas mdsantia@iastate.edu

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

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
	Nov 2018 – Oct 2019
Polytechnic University of Puerto Rico; San Juan, Puerto Rico  High School Dual-Enrollment	3.67 GPA
Work	
Pre-Calculus-Teaching Assistant	Aug 2024 – Current
Iowa State University, MATH 1430	
$\partial$ Teach multiple sections of weekly recitations with quizzes.	
$\partial$ Grading and office hours are also part of the weekly responsibilities.	
Differential Equations–Teaching Assistant	Aug 2022 – May 2024
Purdue University, MA 366	
$\partial$ Teach weekly sections for problem solving techniques with DEQs software.	
$\partial$ Discussing potential solutions that allow the students to think critically.	
$\partial$ Solving a wide range of applicable problems of estimation in the real world.	
∂ Grading weekly Labs.	A ~ 2021 Mary 2022
Emerging Leaders Science Scholar Mentor	Aug 2021 – May 2022
Purdue University	
$\partial$ Lead three incredible minority freshmen in Mathematical fields to adapt to college life.	
$\partial$ 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.	
Dosaarah Evnarianaa	
Research Experience Alternative Artificial Intelligence	June 2023 – Aug 202
Institute of Pure and Applied Mathematics (IPAM)	June 2025 - Aug 202
∂ Team project in the Research of Industrial Projects for Students (RIPS).	
<ul> <li>∂ Worked on an alternative artificial intelligence framework through particle methods.</li> </ul>	
<ul> <li>∂ Trained neural networks that could recreate the behavior of our alternative algorithm.</li> </ul>	
<ul> <li>∂ These methods were also run in Nvidia's Omniverse for Digital Twin machine learning.</li> </ul>	
<ul> <li>∂ RIPS Projects Day presentation sharing the main achievements of the project.</li> </ul>	June 2022 – Sep 202
Random Walks of Almost Leinert Sets	
Purdue University	
∂ Weekly research group presentations.	
<ul> <li>∂ We expanded and estimated random walk studies on semi-commutable spaces.</li> </ul>	
<ul> <li>∂ Built probability bound functions that accounted for the new possible walks from</li> </ul>	
commutative spaces.	

Scholarships and Awards

Scholar ships and Awards	
Purdue's Dean's List	July 2020 – May 2024
Purdue Semester Honors	July 2020 – May 2024
Emerging Leaders College of Science Scholarship	July 2020 – May 2024
Kinesis Scholars Scholarship	July 2020 – May 2024
BoilerMake Hackathon Participant	Jan 2022