

Diego Rivera Correa

Doctoral Student at Northeastern University

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drivera23.github.io

RESEARCH INTERESTS

Data Management, Linear Programming, Graph Databases, Graph Query Processing, Parallel Computing

EDUCATION

Northeastern University Boston, MA, USA
Doctor of Philosophy in Computer Science 2023 -
Advisor: Dr. Mirek Riedewald

Northeastern University Boston, MA, USA
Master of Science in Computer Science 2023 -

University of Puerto Rico - Mayagüez Mayagüez, Puerto Rico
Bachelor of Science in Computer Science 2019 - 2023
GPA: 3.93/4.00, *magna cum laude*
Focus: Cryptography, Human-Computer Interaction, Server Development

PROFESSIONAL EXPERIENCE

Nagnoi, Inc. San Juan, Puerto Rico
Software Engineer Summer 2023

Amazon Nashville, TN, USA
Business Intelligence Engineer Summer 2022

American International Group San Juan, Puerto Rico
Application and Database Developer Summer 2021

Andeno San Juan, Puerto Rico
Data Scientist Spring 2021

JOURNAL PUBLICATION

- [1] W. Ruperto, S. Pérez, J. Villafañe, D. Villahermosa, J. Colón, C. Garcia, L. Ríos, C. Ortiz, J. Iglesias, J. Chamorro, A. Torres, S. Peña, G. Oliveras, R. Santana, K. Hernández, M. Cosme, A. D. Toro, P. Santana, M. Marucci, N. Martinez, H. Pérez, S. Silva, A. Nieves, D. Lugo, G. Medina, J. Pesante, B. Segarra, J. Carrasquillo, J. Pérez, **Diego Rivera**, J. Vélez, F. Otero, and J. Concepción. *NASA Revolutionary Aerospace Systems Concepts Academic Linkage (RASC-AL) Design Competition First Place Winning Paper - University of Puerto Rico, Mayagüez*. 2020. DOI: 10.2514/6.2020-4198. eprint: <https://arc.aiaa.org/doi/pdf/10.2514/6.2020-4198>. URL: <https://arc.aiaa.org/doi/abs/10.2514/6.2020-4198>.

AWARDS AND HONORS

Northeastern University Boston, MA, USA
Academic Honors Convocation Recognition 2024
Recognized by Northeastern University's President for being awarded the NSF GRFP.

UPRM Department of Mathematical Sciences Mayagüez, Puerto Rico
Karl Friedrich Gauss Medal 2023
Awarded to UPRM's most distinguished graduating student in the Department of Mathematical Sciences.

Nagnoi, Inc. San Juan, Puerto Rico
Nagnoi Scholar 2022
1 of 5 selected among 150 applicants for a 2k USD scholarship due to academic and community wide achievements.

GRANTS AND FELLOWSHIPS

National Science Foundation <i>Graduate Research Fellowship</i> Amount: 130k USD for 3 years.	USA 2024
Northeastern University <i>Khoury Distinguished Fellow</i> Amount: 10k USD stipend bonus to begin doctoral studies.	Boston, MA, USA 2023
Georgia Institute of Technology <i>FOCUS Scholar Travel Grant</i> Travel grant to Atlanta for academic and social impact excellence.	Atlanta, GA, USA 2022, 2023
Computing Alliance of Hispanic-Serving Institutions <i>Local Research Experience for Undergraduates Fellowship</i> 10-week 1k USD fellowship to pursue research on Cryptography	Mayagüez, Puerto Rico 2022

TEACHING EXPERIENCE

CS6240: Large-Scale Parallel Data Processing Role: Teaching Assistant	Fall 2024
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SERVICES

Northeastern University Khoury College Graduate Admissions Committee Reviewed applications for prospective PhD students.	2023-2024
UPRM Department of Mathematical Sciences Open House Assistant Helped organize talks and materials for prospective undergraduate students.	2022-2023
INFOMATE REMEDIADORA Systems Developer csmath.uprm.edu & uprm.edu/math Developer	2022-2023 2022

SKILLS

Programming Languages: Java, JavaScript, Python, C++, Scala, Scheme, Lisp, Julia, PHP

Querying Languages: SQL, Cypher

Visualization: PowerBI, Excel, Matplotlib, QuickSight, Seaborn, Plots

Database Management Systems: MySQL, MongoDB, PostgreSQL, PHPMyAdmin, Amazon RDS, MariaDB, Neo4j

Data Warehouses: AWS-Redshift, Microsoft Azure SQL Database

Data Analysis Libraries: NumPy, Pandas, Scikit, Pipenv

Operating Systems: Windows, Linux, macOS

IDEs: VS Code, Jupyter Lab, IDLE, DataGrip, PyCharm, Vim, Eclipse, IntelliJ

Distributed Computing: Apache Spark, Hadoop MapReduce

Miscellaneous: Microsoft Word, Microsoft PowerPoint, Google Docs, Google Slides, Google Sheets, Overleaf, Google Drive, L^AT_EX, GitHub, GitLab, HTML, Markdown, ReadMe

Language: Spanish (native), and English (fluent)

REFERENCES

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Dr. Edwin Flórez

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Dr. Alcibiades Bustillo-Zárate

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