

Diego Rivera Correa

Doctoral Student at Northeastern University

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rivera.di@northeastern.edu

[drivera23.github.io](https://github.com/drivera23)

RESEARCH INTERESTS

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

EDUCATION

Northeastern University

Doctor of Philosophy in Computer Science

Advisor: Dr. Mirek Riedewald

Boston, MA, USA

2023 -

Northeastern University

Master of Science in Computer Science

Boston, MA, USA

2023 - 2025

University of Puerto Rico - Mayagüez

Bachelor of Science in Computer Science

GPA: 3.93/4.00, *magna cum laude*

Focus: Cryptography, Human-Computer Interaction, Server Development

Mayagüez, Puerto Rico

2019 - 2023

PROFESSIONAL EXPERIENCE

Nagnoï, Inc.

Software Engineer

San Juan, Puerto Rico

Summer 2023

Amazon

Business Intelligence Engineer

Nashville, TN, USA

Summer 2022

American International Group

Application and Database Developer

San Juan, Puerto Rico

Summer 2021

Andeno

Data Scientist

San Juan, Puerto Rico

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

Academic Honors Convocation Recognition

Recognized by Northeastern University's President for being awarded the NSF GRFP.

Boston, MA, USA

2024

UPRM Department of Mathematical Sciences

Karl Friedrich Gauss Medal

Awarded to UPRM's most distinguished graduating student in the Department of Mathematical Sciences.

Mayagüez, Puerto Rico

2023

Nagnoï, Inc.

Nagnoï Scholar

1 of 5 selected among 150 applicants for a 2k USD scholarship due to academic and community wide achievements.

San Juan, Puerto Rico

2022

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

Dr. Mirek Riedewald

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Khoury College of Computer Sciences
Northeastern University
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Dr. Edwin Flórez

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Dr. Alcibiades Bustillo-Zárate

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