

Diego Rivera Correa

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✉ rivera.di@northeastern.com
📄 [driviera23.github.io](https://github.com/driviera23)

Research Interests

Linear Programming, Graph Analysis, Parallel Computing, Data Mining

Education

2023 – 2028 **Northeastern University**, Boston, MA, United States

Doctor of Philosophy in Computer Science

Advisor: *Dr. Mirek Riedewald*

2019-2023 **University of Puerto Rico - Mayagüez (UPRM)**, Mayagüez, Puerto Rico

Bachelor of Science in Computer Science

Honors: *magna cum laude*

Focus: Cryptography, Human-Computer Interaction, Server Development

Work Experience

Fall 2023 – Present **Northeastern University DATA Lab**, *Researcher*, Boston, MA, United States.

Researching on fairness allocation measures for Supply-Chains using Linear Programming

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

Fall 2022 **UPRM**, *Researcher*, Mayagüez, Puerto Rico.

Title: Constructing 2D Watermarks by Composition

Advisor: Dr. Alcibiades Bustillo

Topics: Cryptography, Number Theory, Finite Fields, Signal Processing

Summer 2022 **Amazon**, *Business Intelligence Engineer*, Nashville, TN, United States.

Team: Global Transportation Technology Services

Summer 2021 **American International Group**, *App Developer*, San Juan, Puerto Rico.

Spring 2021 **Andeno**, *Data Scientist*, San Juan, Puerto Rico.

Awards

2024 National Science Foundation Graduate Research Fellowship

2023 Northeastern University - Khoury Distinguished Fellowship

10k additional stipend to begin my doctoral studies

- 2023 UPRM - Karl Friedrich Gauss Medal
Awarded to UPRM's most distinguished graduating student in the Math Department
- 2023 UPRM Department of Mathematical Sciences Honor Roll
Awarded for maintaining a high GPA across the 2021-22 academic year
- 2023 Georgia Institute of Technology - FOCUS Scholar
Selected for travel conference to Atlanta for academic and social impact excellence
- 2022 CAHSI Local REU Research Fellowship
10 week fellowship to pursue CS research at UPRM
- 2022 Nagnoi, Inc. Scholar
1 of 5 selected among 150 applicants due to academic and community wide achievements
- 2022 UPRM Department of Mathematical Sciences Honor Roll
Awarded for maintaining a high GPA across the 2020-21 academic year
- 2022 Georgia Institute of Technology - FOCUS Scholar
Selected for travel conference to Atlanta for academic and social impact excellence

Publication

- NASA Wilbert Ruperto, Santa Pérez, Jobel Villafañe, David Villahermosa, José Colón,
RASC-AL Carlos Garcia, Lemuel Ríos, Carlos Ortiz, José Iglesias, Joseph Chamorro, Angélica
2020 Torres, Sebastian Peña, Giovanni Oliveras, Rut Santana, Kenneth Hernández, Melody
Cosme, Amanda Del Toro, Peter Santana, Marscos Marucci, Nelson Martinez, Hector
Pérez, Stephanie Silva, Adriana Nieves, Diego Lugo, Gil Medina, Joleyshka Pesante,
Brian Segarra, Jean Carrasquillo, Joseliz Pérez, **Diego Rivera**, Jonathan Vélez,
Fremiud Otero and Jessiebell Concepción. *NASA Revolutionary Aerospace Systems
Concepts Academic Linkage (RASC-AL) Design Competition First Place Winning
Paper - University of Puerto Rico, Mayagüez. Aerospace Research Central, 2020.*

Talks and Presentations

- SIDIM 2023 **Diego Rivera Correa**, Dr. Alcibiades Bustillo. 2023. Constructing 2D Watermarks
[Poster] by Composition. SIDIM 2023, Mayagüez, Puerto Rico

Skills

- Programming Languages Java, JavaScript, Python, C++, Scala, Scheme, Lisp, Julia, PHP
- Visualization PowerBI, Excel, Matplotlib, QuickSight, Seaborn, Plots
- Databases MySQL, postgresSQL, PHPMyAdmin, AWS-Redshift
- Operating Systems Windows, Linux, macOS

IDEs VS Code, Jupyter Lab, IDLE, DataGrip, PyCharm, Vim, Eclipse, IntelliJ
Frameworks Apache Spark, Hadoop MapReduce
Miscellaneous Microsoft Word, Microsoft PowerPoint, Google Docs, Google Slides, Google Sheets, Overleaf, Google Drive, L^AT_EX, GitHub, GitLab
Language Spanish (native), and English (fluent)

Services

Committee 2023: Northeastern University Khoury College Graduate Admissions
Volunteering 2022, 2023: UPRM Open House