Diego Rivera Correa

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⌨ *drivera23.github.io*

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 Fellowhip

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 RASC-AL 2020   Wilbert Ruperto, Santa Pérez, Jobel Villafañe, David Villahermosa, José Colón, Carlos Garcia, Lemuel Ríos, Carlos Ortiz, José Iglesias, Joseph Chamorro, Angélica 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 [Poster]   **Diego Rivera Correa**, Dr. Alcibiades Bustillo. 2023. Constructing 2D Watermarks 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, postgreSQL, 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, LaTeX, GitHub, GitLab
Graduate-Coursework	Numerical Optimization Modeling, Large-Scale Parallel Data Processing, Theory and Research Methods in Human-Computer Interaction, Responsible Data-Management
Language	Spanish (native), and English (fluent)

Services

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