Jocely Lopez Luna

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Education

Columbia University in the City of New York — January 2020

Bachelor of Arts in Environmental Science.
Relevant Coursework: Calculus I, Calculus II, Calculus III, Computational Earth Science.
Made Dean's list in Spring 2019 and Fall 2019.

New York University - Tandon School of Engineering — 2023–2024

Bridge to MS Program in Computer Science.
Focused on developing quantitative and programming skills in preparation for graduate studies in statistics and data analysis.
Received Certificate of Distinction.

Work Experience

Lamont-Doherty Earth Observatory — 2020–Present

- Applied data analysis and programming to transform decades-old analog seismological data into modern digital formats for statistical and seismic analysis.
- Developed code to model atmospheric and underground nuclear explosions, contributing to a deeper understanding of seismic event patterns.
- Collaborated with research group on projects, gaining experience with large datasets, statistical models, and time-series analysis.

Bordone Contracting, LLC — 2017–2020

- Analyzed financial data to optimize project bidding workflows, improving weekly output by 25%.
- Developed Excel-based tools to automate employee time and attendance tracking, streamlining administrative processes.
- Established new client relationships, securing $150,000 in contracts through data-driven project proposals.

Van Cortlandt Park Conservancy — 2016–2017

- Led ecological restoration projects, utilizing quantitative data on forest health to drive decisions in environmental management.
- Mentored a team of interns and provided tutoring in data interpretation and environmental science concepts, fostering skills in leadership and education.

Skills

Python (NumPy, Pandas, Scipy, Obspy)	C++	LaTeX
MS Excel (Advanced)	MS PowerPoint	Fluent in Spanish

Publications

- Göran Ekström, Jocely Lopez Luna, Paul G. Richards; On Magnitudes and Inferred Yields of the 39 Underground Nuclear Test Explosions at the Novaya Zemlya Test Site. *Bulletin of the Seismological Society of America* 2023;; 114 (2): 1167–1177. doi: https://doi.org/10.1785/0120230188
- *"Relocation of Earthquakes at Transform Fault Systems in the East Pacific Rise, and Implications for Rupture Dynamics"*, Undergraduate Thesis, Columbia University, 2019.