

# Elena Palmeri Lukac

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## EDUCATION

**Barnard College, Columbia University**, New York, NY

Expected May 2026

*B.A. in Computer Science*

GPA: 3.94

Relevant coursework: Data Structures; Calculus I | In progress: Advanced Programming, Calculus III

**Break Through Tech AI New York at Cornell Tech**, New York, NY

August 2023

*Certificate in Machine Learning/AI*

## RESEARCH & WORK EXPERIENCE

**Guidehouse AI Studio Project** | Aug 2023 -- Present

**Guidehouse**, Remote

- Programmed Gradient Boosting Regressor models to predict organizations providing protective aid, specifically for Child Protection; Gender-Based Violence; and Mine Action.
- Models achieved  $R^2$  scores greater than  $\sim 0.95$  and RMSE scores less than  $\sim 1.65$ .
- 3-month progress and conclusions to be presented to Guidehouse professionals in December 2023.

**Research Assistant** | May 2023 -- Aug 2023

**CyberQuants Lab, Columbia University - New York, NY**

- Assembled 3 lab presentations and reports on literature involving quantum security and quantum malware, predominantly on confidentiality and integrity attacks on victim qubits.
- Research presented at Quantum Computer Cybersecurity Symposium at the Yale Quantum Institute in November 2023; and the Lida Orzeck '68 Poster Session at Barnard College in August 2023.
- Led by Dr. Salvatore Stolfo, and supported through Barnard College's Summer Research Institute (SRI).

## LEADERSHIP & COMMUNITY INVOLVEMENT

**AI Program, Member** | May 2023 -- Present

**Break Through Tech AI - New York, NY**

- Selected from 1500+ applicants for the Break Through Tech AI Program at Cornell Tech.
- Participated in 12-month program including Machine Learning coursework with Cornell faculty, experiential learning experiences, and mentorship from industry professionals.

**Class 1 Teacher; Member** | Oct 2022 -- May 2023

**Girls Who Code, Columbia University - New York, NY**

- Taught  $\sim 15$  high school students Python programming basics via weekly 2-hour lectures.
- Assigned in-class problem sets and assisted in programming and presenting solutions.

**Discovery Guide (Leader)** | Apr -- Nov 2021

**Wildlife Conservation Society - New York, NY**

- Programmed habitat/enrichment game accessed via WCS "MobileQuests" QR code in the Bronx Zoo.
- Researched and drew content relating to local environments and species for "GlobalQuests" Canada, Afghanistan, and DR Congo & Rep. Congo activities.
- Led activities on wildlife and the environment for in-person Central Park Zoo visitors.

## ADDITIONAL

**Technical Skills:** Java, Python, Jupyter Notebooks, Pandas, NumPy, Scikit-learn, C, Git.