

ELANA MIRENE BOAMPONG

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EDUCATION

Columbia University — New York, NY Expected July 2028
B.A. Environmental Science, Climate and Sustainable Development |GPA: 3.6|

Mercer County Community College — West Windsor, NJ May 2025
A.A. Environmental Science |GPA: 4.0|

EXPERIENCE

Mercer County Community College — West Windsor, NJ Jan 2025 – May 2025
Tutor & Peer Mentor • Supported 20+ students through individualized academic guidance, translating complex concepts into clear, structured explanations and adapting communication to different learning needs.
• Developed organized study strategies to improve student engagement while managing multiple priorities and deadlines.

RPS Engineering Services — Accra, Ghana. May 2022 – Jun 2022
Engineering Intern • Conducted field surveys and collected data supporting infrastructure and telecommunications projects, ensuring accurate information for planning and decision-making.
• Analyzed and organized project data and produced reports used by engineers to evaluate findings and inform project planning.

Universal Hospitals Group — Accra, Ghana. May 2021 – Aug 2021
Administrative Intern • Supported research and administrative processes for healthcare infrastructure projects, coordinating information and maintaining accurate project records.
• Analyzed data in Microsoft Excel to improve reporting accuracy and support internal decision-making.

SELECTED PROJECTS—Columbia University Sustainable Energy HeroX Team — Renewable Energy Strategy
• Contributed to a **first-place** urban solar-plus-storage project, modeling vertical solar integration and evaluating lithium-ion battery storage for space-constrained urban districts with potential annual generation exceeding **2.4 GWh**.
• Supported financial and distribution analysis and collaborated on a **Power Purchase Agreement (PPA) or cashpurchase proposal**, translating technical findings into a practical commercial recommendation.

GIS Climate Risk Analysis — Columbia University
• Analyzed population exposure to sea-level rise in Florida's low-elevation coastal zones using **ArcGIS Pro and ArcGIS Online**, applying raster analysis and digitization to identify vulnerability patterns.
• Synthesized spatial findings into an interactive StoryMap with policy recommendations, communicating complex research and data-driven insights to broader audiences.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

- **VP of Policy, Phi Theta Kappa Honor Society International Students Club:** Contribute to policy discussions and student advocacy while collaborating with a diverse student community.
- **Committee Board, Columbia Queer Business Society:** Support professional development programming and student engagement.
- **Columbia UNICEF & Model United Nations:** Participate in community initiatives, fundraising, and policy-focused discussions.
- **Consulting & Industry Engagement:** Use **CaseCoach** for structured case preparation; completed **Forage** professional simulations and use **Vault** for consulting and industry research; participate in professional networking events and **Center for Women in Energy** programming.

SKILLS & HONORS—Technical: ArcGIS Pro, GIS & Spatial Analysis, Raster Analysis, Data Visualization, Microsoft Excel
Professional: Research & Analysis, Critical Thinking, Problem-Solving, Project Management, Stakeholder Engagement, Written & Verbal Communication

Honors: Columbia GS Program for Academic Leadership & Service Scholarship; Columbia Dean's List; Mercer County President's List; Phi Theta Kappa Honor Society, Wall Street Group merit scholar recipient