

YULAN LI

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PROFESSIONAL SUMMARY

Urban infrastructure and environmental professional with an **M.S. in Urban Infrastructure Systems** from NYU Tandon School of Engineering and interdisciplinary experience in **infrastructure resilience, renewable energy, microgrids, environmental systems, hydrology, GIS, project coordination, and community engagement**. Experienced in supporting feasibility studies, environmental analysis, project cost assessment, proposal development, technical research, stakeholder engagement, and community programs. Strong ability to communicate complex technical information to diverse audiences and collaborate with multidisciplinary teams, public agencies, community organizations, and other stakeholders. Passionate about sustainable, resilient, and equitable urban infrastructure.

EDUCATION

New York University, Tandon School of Engineering — Brooklyn, NY

Master of Science, Urban Infrastructure Systems, Concentration in Environmental Systems

Sept. 2018 – Dec. 2019 | GPA: 3.33

Relevant Coursework: Hydrology & Urban Water Engineering • Infrastructure Engineering & Financing • Infrastructure Asset Management • Urban Infrastructure Systems Management • Environmental Impact Assessment • Urban Resiliency • Environmental Geotechnology • Civic Analytics & Urban Intelligence • Stratigraphy & Petrology

Brooklyn College, CUNY — Brooklyn, NY

Bachelor of Arts, Earth & Environmental Science; Economics

Jan. 2016 – June 2018 | GPA: 3.74

Honors: Rose Goldstein Memorial Scholarship • Dean's List

PROFESSIONAL EXPERIENCE

Community Ambassador – Climate Resilience & Community Engagement

Brooklyn, NY | June 2023 – March 2026

- Supported environmental and climate resilience initiatives through research, program coordination, stakeholder communication, and community outreach.
- Secured funding through the EPC to support environmental education and climate resilience programming.
- Established a **climate resilience education program in collaboration with the Massachusetts Clean Energy Center (MassCEC)**.
- Developed and facilitated environmental workforce and career-awareness workshops for low-income and underserved communities.
- Communicated climate resilience, environmental sustainability, and clean-energy concepts to diverse audiences through presentations, workshops, and educational materials.
- Coordinated with community partners and stakeholders to support program implementation and outreach.
- Managed multiple activities simultaneously, including research, program planning, communications, documentation, and community engagement.

Business Analyst / Systems Engineer

NYU Tandon School of Engineering / Microgrid Projects — New York, NY

Jan. 2019 – Jan. 2021

- Continued work with the **Rockaway Community Microgrid** project developed through the NYU Urban Infrastructure Systems program.
- Evaluated community-scale microgrids and renewable energy systems as resilient local electricity solutions against hurricanes, flooding, and other natural hazards.
- Investigated NYSERDA microgrid programs and evaluated technical, financial, environmental, and implementation considerations.
- Conducted feasibility studies and supported development of microgrid proposals, technical documentation, and funding materials.
- Analyzed and adjusted project cost estimates and developed recommendations to improve project competitiveness and project-selection criteria.
- Supported analysis of **rooftop solar and microgrid applications for major New York City hospitals** to improve energy reliability and resilience.
- Evaluated renewable energy options, including solar, wind, geothermal, and other distributed energy resources.
- Conducted community surveys and stakeholder research in Rockaway to identify local energy needs and resilience priorities.
- Collaborated with multidisciplinary project teams to evaluate infrastructure, environmental, economic, and community considerations.

Corporate Trainer

Scope | Feb. 2022 – Dec. 2022

- Worked with **Assurance Wireless** to assist individuals and families experiencing financial hardship with applications for Medicaid, SNAP/food assistance, and free or low-cost mobile phone services.
- Helped community members establish reliable communication access and connect with essential services and resources.
- Collaborated with nonprofit organizations, including **Heifer International** and **International Fund for Animal Welfare (IFAW)**, to support fundraising initiatives addressing hunger, poverty, animal welfare, and environmental protection.
- Conducted interviews with community members and prospective participants to understand needs, eligibility, and program requirements.
- Trained and coached Account Executives on program procedures, customer communication, outreach strategies, and service delivery.
- Strengthened communication, presentation, training, interviewing, and stakeholder-management skills while working with diverse populations.

Academic Tutor – Mathematics & Economics

Varsity Tutors | 2021 – 2022

- Provided one-on-one and small-group instruction in Calculus, College Algebra, Mathematical Economics, Microeconomics, and Macroeconomics.
- Adapted instructional strategies based on individual learning styles, academic needs, and student performance data.
- Used online learning platforms to deliver instruction, communicate with students, and track academic progress.
- Helped students achieve approximately **25–30% improvement in examination performance**.

Soil & Hydrology Research Lab Technician

Brooklyn College Environmental Analytical Center — Brooklyn, NY
Nov. 2017 – Jan. 2019

- Conducted soil quality testing, environmental monitoring, sample collection, and laboratory analysis.
- Managed soil sample intake, storage, drying, preparation, and analysis.
- Performed **pH, salinity, XRF, hydrometer, and organic-content testing** and maintained accurate analytical records.
- Supported environmental research involving soil quality, contamination, remediation, and environmental conditions.
- Prepared and maintained technical data, laboratory records, and project documentation.
- Managed data entry and assisted with departmental meetings and budget administration.
- Supported expansion of external laboratory services, contributing to an approximately **30% increase in non-college clients**.
- Maintained quality-control procedures and supported the continued improvement of laboratory services.

Supervisor – Phytoremediation & Earthworm Research Project

Brooklyn College — Brooklyn, NY
Nov. 2017 – Sept. 2018

- Supervised interns conducting research on phytoremediation and environmentally sustainable soil remediation.
- Trained and guided interns in soil testing, experimental procedures, data collection, and environmental remediation techniques.
- Supported research that reduced lead contamination, modified soil pH, and reduced soil salinity by up to **40% within two months**.
- Coordinated research activities, monitored project progress, and maintained project documentation.

Geology & Economics Tutor

Brooklyn College — Brooklyn, NY
2018

- Provided individual and group tutoring in geology, economics, quantitative analysis, and course-related concepts.
- Assisted students with homework, examination preparation, and academic problem-solving.
- Developed individualized approaches to strengthen student understanding and academic performance.

SELECTED INFRASTRUCTURE & ENVIRONMENTAL PROJECTS

Rockaway Community Microgrid – Master’s Thesis

NYU Tandon School of Engineering

- Investigated community-scale microgrids as a strategy for improving electricity reliability and resilience against hurricanes, flooding, and other natural hazards.
- Evaluated renewable energy resources and distributed energy generation for local electricity supply.
- Examined infrastructure, environmental, economic, and community considerations affecting microgrid implementation.
- Conducted community research and stakeholder engagement to understand local energy resilience needs.

NYC Hospital Rooftop Solar & Microgrid Analysis

- Supported evaluation of rooftop solar and microgrid systems for major NYC hospitals.
- Examined potential improvements in energy reliability, emergency power, renewable energy adoption, and infrastructure resilience.

- Assisted with feasibility analysis, project cost assessment, and proposal development.

Green Infrastructure Stormwater Management

- Applied hydrology and environmental engineering concepts to performance monitoring of green infrastructure stormwater management systems.
- Supported analysis of infrastructure performance and environmental conditions.

Greenwood Cemetery Soil Quality & Remediation

- Conducted soil quality assessment and evaluated potential environmental remediation strategies.
- Applied soil testing, environmental geotechnology, and remediation principles to site conditions.

GIS – International Population in NYC

- Used **ArcMap GIS** to analyze population distribution and demographic patterns across New York City.
- Applied spatial analysis to examine relationships between population characteristics and urban geography.

Pelham Bay Geological Mapping

- Conducted geological field research, rock identification, mapping, and data analysis.
- Applied geological observations and mapping techniques to characterize local conditions.

Population, Energy Use & CO₂ Emissions

- Analyzed relationships among population growth, energy consumption, and carbon emissions at the global scale.
- Evaluated implications for climate change, sustainability, and future infrastructure planning.

TECHNICAL & PROFESSIONAL SKILLS

Infrastructure & Engineering:

Urban Infrastructure Systems • Infrastructure Resilience • Renewable Energy • Microgrids • Environmental Systems • Hydrology • Stormwater Management • Environmental Geotechnology • Soil & Water Quality • Environmental Remediation • Environmental Impact Assessment

Technical & Analytical:

ArcMap GIS • AutoCAD • Maple • Environmental Data Analysis • Feasibility Studies • Technical Reports & Calculations • Project Cost Analysis • Data Management • Microsoft Word • Excel • PowerPoint

Project & Stakeholder Management:

Project Coordination • Project Management • Proposal Development • Stakeholder Engagement •

Community Outreach • Research • Workshop Facilitation • Technical Presentations • Training • Interviewing • Documentation • Cross-functional Collaboration

Languages:

English • Mandarin • Cantonese

Certifications:

Licensed Community Interpreter • Psychological First Aid Specialist • Diabetes Prevention Lifestyle Coach

PROFESSIONAL AFFILIATIONS

- National Ground Water Association (NGWA)
- Geological Society of America (GSA)
- American Society of Civil Engineers (ASCE)
- Geological Society of Brooklyn College
- NASA

COMMUNITY & VOLUNTEER EXPERIENCE

- Brooklyn Bridge Park Educational Center for Children
- Green Team Coastal Cleaning & Environmental Protection Activities
- OneBrick Group Nursing Home Volunteer