Hanwen YANG (Samuel)

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Boston University | Environmental Science | Junior

PROFILE

- Background in quantitative remote sensing and data analysis, with hands-on project experience in climate trend analysis, hydrological modeling, and land-use/cover change assessment using ENVI, GIS, and excel
- Currently enrolled in Python programming (CS111) and introductory statistics to strengthen data processing and modeling skills
- Seeking research opportunities to apply data analysis and remote sensing skills to real-world environmental sustainability challenges and gain hands-on empirical experience

EDUCATION

Boston University | Environmental Science (GPA: 3.38/4.0) Expected Graduation: June 2028

Core Courses Taken: Calculus I & II, Multivariate Calculus, Data/Models & Analysis, Climate and Earth System, Environmental Change & Sustainability, Hydrology, Remote Sensing

RESEARCH PROJECTS

- **Remote Sensing Assessment of Hurricane Maria's Ecological Damage and Power Recovery in Puerto Rico** (Remote Sensing, Spring 2026)
  Applied Landsat-8 supervised classification to quantify pre/post-storm land-use changes, and integrated VIIRS night-time lights to track power restoration patterns, finding delayed recovery in high-altitude, low-population areas. Used ENVI for image processing and produced a report with spatial statistics and time-series analysis (overall accuracy >85%).
- **Trend Analysis of Boston Climate Observation Data** (Data/Models & Analysis, Fall 2025)
  Cleaned nearly 20 years of daily temperature/precipitation data, used Excel moving averages to identify a long-term warming trend (+0.3°C/decade) and seasonal precipitation cycles, and produced visualizations and an analytical memo.

INTERNSHIP EXPERIENCE

Deloitte Consulting Project Team | Remote Data Analyst Intern *Jul -Aug 2026*

- Used Excel to clean 48-month operational data (20+ dimensions: energy, carbon, waste) for a manufacturing firm, built a standardized analytical wide-table, calculated carbon/energy intensity metrics, identified anomalies (e.g., "V-shaped carbon rebound", "waste disposal non-compliance"), and authored a root-cause memo.
- Reviewed SSE and MSCI ESG requirements, identified compliance gaps, designed indicator mapping, contributed to the ESG disclosure framework, and translated best practices into actionable improvement metrics.

SKILLS & TOOLS

- **Data Processing:** Excel (advanced functions, pivot tables, trend analysis, moving averages); Python (basic syntax, enrolled in CS111 for Fall 2026).
- **Spatial & Remote Sensing:** ENVI 6.0 (preprocessing, classification, accuracy assessment), basic GIS, VIIRS data download and preprocessing.
- **Visualization:** ENVI mapping, Excel charts.
- **Languages:** English (IELTS 7.0, fluent academic reading/writing), Chinese (native)