

Anthony Loh

aloh@villanova.edu | (646) 719-4053 | Brooklyn, NY | <https://anthonyloh.pages.dev/>

EDUCATION

Villanova University

Expected: May 2027

B.S. in Civil Engineering, Minor in Geography

Villanova, PA

- **Coursework:** Transportation Engineering; Remote Sensing; Geology for Engineers; Civil Engineering Fundamentals; Differential Equations with Linear Algebra; Hydraulic Engineering & Hydrology
- **Activities:** American Society of Civil Engineers; Globeplotters; Villanova Sports Analytics Club

RESEARCH EXPERIENCE

College of Engineering, Villanova University

Jan. 2026 – Present

Undergraduate Researcher

Villanova, PA

- Awarded the competitive John Hennessy Undergraduate Research Fund to lead a 100-hour mentored study quantifying Winter Storm Uri's impact on mobility, healthcare access, and transportation equity across major Texas metros
- Integrating five datasets (mobility, healthcare visits, mortality, utility outages, demographics) in ArcGIS Pro and R to map infrastructure disruption and quantify geographic disparities in access
- Built an interactive 3D web visualization presenting the study's spatial findings (www.alohresearch.pages.dev)

WORK EXPERIENCE

Office of the Provost, Villanova University

Aug. 2025 – Present

Classroom Organizer

Villanova, PA

- Prepared up to 30 classrooms across 6 academic buildings daily; flagged maintenance, AV, and custodial issues to keep instruction on schedule

DoorDash and Uber Eats

Oct. 2025 – Present

Delivery Driver

Greater Philadelphia Area

- Balanced 15+ hrs/week of time-sensitive delivery across two platforms with a full course load, sustaining a 5.0★ customer rating

PROJECTS

Public Library and Learning Hub Geotechnical Report

Aug. 2025 – Present

- Co-authored a geotechnical design report evaluating fill suitability, settlement prediction, green infrastructure permeability, and retaining wall backfill for a proposed Pennsylvania public library
- Conducted ASTM-standard compaction, consolidation, hydraulic conductivity, and direct shear tests

Wetland Site Assessment and Path Redesign

Jan. 2025 – May 2025

- Assessed stormwater wetland performance via chloride t-testing, flow rate reduction analysis, groundwater contour mapping, and cumulative probability plots
- Produced ArcGIS Pro and AutoCAD deliverables for an ADA-compliant path redesign

Hotel and Casino Project Development

Aug. 2024 – Dec. 2024

- Led site due diligence on a 262,000 ft² Philadelphia waterfront brownfield; analyzed FEMA flood zones, zoning regulations, wetlands, soil conditions, and Superfund proximity for a proposed \$73.9M hotel-casino complex
- Applied RS Means cost estimation across building, parking, landscaping, and earthwork categories; calculated cut/fill volumes from 80+ data points

CERTIFICATIONS & SKILLS

- **Technologies:** Civil 3D, ArcGIS, AutoCAD, R, Tableau, Fusion 360, Microsoft Office, Python, Google Earth
- **Skills:** Data analysis, statistical analysis, GIS mapping, technical report writing, web-dev and 3D-visualization