Anthony Loh

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EDUCATION

Villanova University, College of Engineering **Expected: May 2027**
B.S. in Civil Engineering, Minor in Geography *Villanova, PA*

- **Award:** John Hennessy Undergraduate Research Fund, 1 of 8 competitive grants for independent research

RESEARCH EXPERIENCE

Villanova University, Department of Civil & Environmental Engineering **Sep. 2026 to Present**
Undergraduate Researcher *Villanova, PA*

- Built a Python pipeline that models each building in Blender from architects' elevations and CAD footprints
- Built 48 campus buildings and 17 m USGS terrain in one site frame, FBX exports under 1 mm position error
- Delivered 2 prototype packages; the professor loaded the model into his traffic simulation software

Villanova University, Department of Civil & Environmental Engineering **Jan. 2026 to May 2026**
Undergraduate Researcher, Transportation Systems *Villanova, PA*

- Sole author of a funded study isolating the 2021 Texas grid collapse from COVID, finding a 20.4% travel drop
- Traced a 41.2-point gap between Austin (-36.3%) and El Paso (+4.9%), outside ERCOT, to grid not weather
- Identified 670 to 700 non-COVID excess deaths that week, 2.7 to 2.9× the official count, from testing collapse
- First author of a three-author paper in Veritas: Villanova Research Journal, Vol. 8, in print Nov. 2026
- Built an interactive 3D public web visualization of the study's spatial findings (research.lohanthony.com)

INDEPENDENT PROJECTS

NYC Crash Explorer, Traffic Safety Analysis **Fall 2026**

- Mapped 51,224 NYC injury and fatal crashes by hour and place (lohanthony.com/nyccrashexplorer)
- Recovered 213 deaths a naive query dropped and ranked intersections by pedestrian and cyclist casualties

Transit Accessibility Mapping, SEPTA and NYC Subway **Summer 2026**

- Processed 2M+ records from public GTFS feeds and ridership data through a Python normalization pipeline

WORK EXPERIENCE

Villanova University, College of Engineering **Sep. 2026 to Present**
Distance Education Operator *Villanova, PA*

- Operate audio/video systems for live remote graduate engineering courses, managing streaming and archiving

Villanova University, Classroom Technologies **Sep. 2026 to Present**
Information Technology Technician *Villanova, PA*

- Staff a support hotline diagnosing AV and software faults during live instruction, logged via ticketing system

Villanova University, Office of the Provost **Aug. 2025 to Present**
Classroom Organizer *Villanova, PA*

- Prepare assigned main-campus classrooms on a daily 7:00 AM shift, escalating faults to the Classroom Manager

Young Dancers in Repertory **Jul. 2026 to Aug. 2026**
Group Leader and Counselor *Brooklyn, NY*

- Co-led a group of 20 eighth graders through athletics, arts, and STEM programming in an 80-person camp

DoorDash and Uber Eats **Sep. 2025 to Present**
Delivery Driver *Greater Philadelphia Area*

- Sustain a 5.0/5.0 customer rating with 100% completion and 100% on-time delivery rates across every order

TECHNICAL SKILLS

- **Programming & Data:** Python (pandas, SciPy, scikit-learn, GeoPandas), JavaScript, HTML/CSS, R, Tableau
- **GIS & Engineering:** ArcGIS Pro, spatial analysis, remote sensing, GTFS transit data, AutoCAD, Civil 3D