

Ketevan Gallagher

KetevanGallagher@gmail.com • 571-389-0115 • [KetevanGallagher.com](https://www.ketevan-gallagher.com)

Skills

Programming Languages: Python, C, C++, Assembly, Verilog, Java, MATLAB, LaTeX, HTML, CSS, JavaScript.

Software: Cisco Software, Git, GitHub, GitLab, Jira, Onshape, Arduino Software, OpenStreetMap, ArcGIS.

Programming Libraries: NumPy, Pandas, PyTorch, SciPy, TensorFlow, Matplotlib, NetworkX, Keras.

Education

University of Toronto, Class of 2028

Toronto, ON

Bachelor of Applied Science in Computer Engineering + PEY Co-op, Class of 2028, GPA: 3.8/4.

Thomas Jefferson High School for Science and Technology, Class of 2024

Alexandria, VA

Senior Research Project in Computer Systems Laboratory: “Analyzing and Classifying Program Evaluations from USAID.”

Work Experience

CACI

Software Development Intern

Ashburn, Virginia, May 2026– August 2026

- Built a multi-camera vehicle tracking dashboard for Customs and Border Protection using machine learning to classify vehicle make, type, and color across live cameras at the US-Mexico border.

Research Internship, Emory University, Spatial Computing Laboratory under Dr. Andreas Züfle

Research Intern

Emory University, Georgia, August 2023– December 2025

- Developed and tested algorithms in Python for estimating user locations from social network structure and authored paper “[Location Estimation based on Friends’ Locations in Geosocial Networks](#)” on results.
- Presented at the SpatialConnect workshop of the 2025 ACM SIGSPATIAL conference in Minneapolis, Minnesota.

Aspiring Scientists Summer Internship Program (ASSIP)

Summer Intern

Emory University, Georgia, June 2023– August 2023

- Created synthetic geosocial network algorithms in Python by incorporating real-world location data into existing spatial network algorithms and authored a paper, “[Synthetic Geosocial Network Generation](#),” on geosocial network algorithms.
- Algorithms in paper were used as the basis for the [PySGN Python package](#).
- Presented at the LocalRec workshop of the 2023 ACM SIGSPATIAL conference in Hamburg, Germany.

Summer Intern

George Mason University, Virginia, June 2022– August 2022

- Co-authored and presented the paper “[Human Mobility-Based Synthetic Social Network Generation](#)” that compared synthetic social networks created with an agent-based model to classical social network models at HANIMOB workshop of 2022 ACM SIGSPATIAL conference.

Activities

aUToronto

September 2024–Present

Mapping Team Lead

aUToronto is the self-driving car design team at University of Toronto that competes in the SAE AutoDrive Challenge II.

- Converted team maps to Google Earth maps, edited track maps, and added functionality to mapping GUI.

Awards

- First place in 2026 SAE AutoDrive Challenge II (as part of aUToronto)
- University of Toronto Engineering International Scholar Award (2024)
- ACM SIGSPATIAL GIS Travel Grant Award (2022 and 2023)
- 2024 National Merit Scholar Finalist