

Aparimit Kasliwal

 Website |  [aparimit11](#) |  [Aparimit](#) |  ap_kasliwal@berkeley.edu |  +1.341.314.0386

EDUCATION

May, 2024 - Present	PhD (Systems Engineering) UC Berkeley, CA Research Focus: Network Science, Transportation Modeling, System Resilience	(Major GPA: 4.0/4.0)
Aug, 2023 - May, 2024	MS (Systems Engineering) UC Berkeley, CA Graduate Certificate in Applied Data Science	(GPA: 3.87/4.0) (GPA: 4.0/4.0)
Jul, 2019 - May, 2023	BTech (Civil Enigneering) IIT Delhi, India	(GPA: 8.14/10.0)

PROJECTS

- **Multi-Scale Traffic Congestion Spreading through Contagion Models** [Project Description](#)
 - Inferring congestion patterns at multiple spatial scales with traffic simulations based on CDR
 - Modeling traffic congestion spread with SIS (Susceptible / Infected) epidemic spreading model
- **Pricing & Matching Policy Development for Ride-sharing** [Course Description](#)
 - Modeled spatial demand patterns using Uber H3 Hexagons for pricing riders accordingly
 - Developed dynamic pricing & matching algorithms which are based on riders in the state
- **Resilience of Singapore MRT to Floods & Targeted Attacks** [Research Programme](#)
 - Modeled MRT Network in Python, developed a Flood Resistance Index to quantify resilience

PUBLICATIONS

Rafaela O.P. Amr S.A. **Aparimit K.**, Mazdak N. (Mar. 2024). “Labeling Construction, Renovation, and Demolition Waste through Segment Anything Model (SAM)”. In: *Construction Research Congress 2024*, pp. 279–288. URL: <https://doi.org/10.1061/9780784485262.029>.

SKILLS

Programming: Python, Pandas, GeoPandas, OSMNx, NetworkX, Git, Bash, MATLAB
Technical Skills: Geo-tagged Data, Map Matching, Trajectory Generation, Uber H3, Networks
Transportation Skills: Traffic Simulations (SUMO), Routing, Congestion Analysis, Traffic Control

RESEARCH & TEACHING

Graduate Student Researcher	Networked Infrastructure Under Compound Extremes	2024 -
Graduate Student Instructor	CE 100: Elementary Fluid Mechanics	Fall 2023
	CE C88: Data Science for Smart Cities	Spring 2024

GRADUATE LEVEL COURSEWORK

EECS 227AT: Optimization Models	CE C258: Supply Chain & Logistics Management
INFO 251: Applied Machine Learning	CE 262: Analysis of Transportation Data
CE 263H: Human Mobility & Network Science	CE 291D: Data-Driven Control Methods

Last updated: May 21, 2024