

SWASTIK KHADKA

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EDUCATION

The University of Texas at Arlington, Arlington, TX
Ph.D. in Transportation Engineering

May 2026
GPA 3.900

The University of Texas at Arlington, Arlington, TX
Bachelor of Science in Civil Engineering

May 2021
GPA 3.755

TECHNICAL SKILLS

Software – PTV Vissim, AutoCAD, Civil 3D, QGIS, MATLAB, ArcGIS, OpenRoad Designer, STATA
Proficient in MS Office – Word, PowerPoint, Excel

RESEARCH EXPERIENCE

Texas Department of Transportation (TxDOT)

Aug 2022 – Present

- Assisted faculty in big data analytics research criteria for large-scale research projects.
- Assisted in 16-intersection corridor Vissim model, demonstrating traffic simulation expertise
- Worked closely with faculty to have proper research resources available for specific research projects

North Central Texas Council of Governments (NCTCOG)

Aug 2021- Aug 2022

- Performed data exploration, planning of framework, and feature engineering
- Developed multi-layer neural network using machine learning algorithms
- Implemented machine learning experiments that lead to the development of new algorithms
- Performed data visualization and regression modeling for comparisons using Wejo dataset

Work EXPERIENCE

The University of Texas at Arlington

Aug 2021 – Present

Research/Teaching Assistant

- Selected as a teaching assistant for Traffic Engineering, 1 of 3 core courses for the graduate program
- Assisted faculty in configuring LIDAR sensors at the traffic signal
- Taught PTV Vissim Simulation Modeling to a group of 35 students

Peer Tutor, Science Learning Center

Sep 2017- June 2018

Dallas County Community College

- Provided one on one and small group tutoring on Physics, Chemistry, and Math
- Worked with the coordinator in organizing study material
- Collaborated closely with a team of six other members

ACHIEVEMENTS/ MEMBERSHIPS

- **Eisenhower Transportation Fellowship** : 2023
- **SCHOLARSHIP** : UTA Outstanding Transfer Scholar 2020, Phi Theta Kappa Scholarship 2018 – 2019
- **DEAN'S LIST** : Fall 2018 - Fall 2021
- **ITE** : Fall 2021-Spring 2024 (UT Arlington Chapter President)
- **ITS** : Fall 2021-Spring 2024 (UT Arlington Chapter Vice president)
- **ASCE** : March 2022 - Spring 2024 (Student Chapter)
- **CHI EPSILON HONOR SOCIETY** : Spring 2020 (UT Arlington Chapter)
- **PHI THETA KAPPA** : Fall 2017 (North Lake Chapter)