

**Muhammad Asif Khan**

**Transportation and Logistics Graduate Student**

**Program:** Logistics and Supply Chain System

**Hometown:** Mianwali (Pakistan)



**What do you like to do in your spare time?** I enjoy listening to the news, listening to music, and reading poetry.

**What are some of your past/current research interests?** My master's research focused on development of a comprehensive framework for optimal highway capacity expansion through lane addition. The applicability of the proposed framework is demonstrated using data from a multi-lane urban arterial. Annualized widening costs (agency lane addition cost and work-zone user delay cost) and excessive user costs for do-nothing scenario (excessive travel delay cost, excessive vehicle operating cost (VOC) and excessive crash cost) were estimated for each analysis year within highway life cycle to estimate a range of traffic volumes for highway capacity expansion. Furthermore, sensitivity analysis was conducted and results reveal that increase in agency to user cost relative weight and annual traffic growth rate would result in later and earlier optimal highway expansion, respectively; while variations in annual interest rate have minimal impact on optimal highway expansion timing.

**How did you become interested in your field of study?** Due to my strong background in Transportation Engineering especially in optimal decision making in highway infrastructure development, the prospectus PhD field suit me the best.

**What would be your dream job?** Serving my home country through research oriented transportation logistic projects.

**What are your goals or future plans?** I shall complete my PhD in logistics and supply chain systems. I am here on the NUST faculty development program, so I have to serve NUST for 5 years after completing my graduation. I shall focus mainly on freight logistics supply chain systems as per my country future requirement.