**Aemal J. Khattak, Ph.D., Professor of Civil Engineering and Director of Mid-America Transportation Center, University of Nebraska-Lincoln**
Email: Khattak@unl.edu; Tel. (402) 472-8126

**Education:**

- Ph.D., Civil Engineering, North Carolina State University, NC, 1999
- M.S., Civil Engineering, Pennsylvania State University, PA, 1995
- B.S., Civil Engineering, NWFP University of Engineering & Technology, Pakistan, 1988

**Employment History:**

- 2016-Present (8 years), Full Professor, Civil and Environmental Engineering Department, University of Nebraska-Lincoln (UNL), Lincoln, NE
- 2021-Present (1 year), Director, Mid-America Transportation Center, UNL
- 2018-2019 (1 year), Interim Department Chair, Civil and Environmental Engineering Department, UNL
- 2006-2016 (10 years), Associate Professor, UNL
- 2000-2006 (6 years), Assistant Professor, UNL
- 1999-2000 (1 years), Transportation Researcher, Iowa State University, Ames, IA
- 1996-1998 (2 years), Graduate Research Assistant, North Carolina State University, Raleigh, NC
- 1994-1995 (1 year), Research and Teaching Assistant, Pennsylvania State University, State College, PA

**Relevant External Grants and Contracts as Principal/Co-Principal Investigator:**

- "Mid-America Transportation Center" USDOT Region 7 University Transportation Center, University of Nebraska-Lincoln, **$2,583,300 (year 6 funding, Oct 1, 2021–Sep 30, 2023)**.
- "Nebraska Railroad Crossing Safety Research," Nebraska Department of Transportation, **177,888 (Jul 2017–Dec 2020)**.
- "Risk Assessment of Hazardous Material Transportation for Small and Tribal Communities." Mid-America Transportation Center, USDOT UTC Program, **$221,338**. **(Jan 2020–Sep 30, 2022)**.
- "Research on School Zone Safety," Nebraska Department of Transportation, **$177,888**. **(Jul 1, 2018–Aug. 31, 2022)**.
- "Improving crash predictions-A more relevant exposure measure than AADT for rail crossings," USDOT UPTA Rail Safety Center, **$72,250 (Sep 2017–Jun 2018)**.
- "Safety Improvements at Railroad Crossings for Pedestrians and Bicyclists," Nebraska Department of Transportation, **$199,510 (Jul 2007–Jun 2011).**
- "Crash costs at highway-rail grade crossings in Nebraska. Mid-America Transportation Center, USDOT UTC Program, **$59,800 (Jul 2010–Dec 2012)**.
- "Centerline curbing at railroad crossings," Nebraska Department of Transportation, **$114,427 (Jul 2004–Jun 2009)**.

**Relevant Publications:** * Graduate Student Co-Author

- Iranitalab*, Amirfarrokh and **Aemal J. Khattak**. Probabilistic classification of hazardous material release events in train incidents and cargo tank truck crashes. Journal of Reliability Engineering and System Safety, Vol. 199, Jul 2020; https://doi.org/10.1016/j.ress.2020.106914.
- Liu*, Huiyuan, Myungwoo Lee* and **Aemal J. Khattak**. Updating annual average daily traffic estimates at highway-rail grade crossings with geographically weighted Poisson regression. Transportation Research Record, Journal of the Transportation Research Board, May 2019; https://doi.org/10.1177/0361198119844976.
- Iranitalab*, Amirfarrokh, **Aemal J. Khattak**, and Eric Thompson. Statistical modeling of types and consequences of rail-based crude oil release incidents in the United States. Journal of Reliability Engineering and System Safety, Vol. 185 May 2019 (p 232-239); https://doi.org/10.1016/j.ress.2018.12.009.
- Kang*, Yashu, Amirfarrokh Iranitalab* and **Aemal J. Khattak**. Modeling railroad trespassing crash frequency using a mixed-effects negative binomial model. International Journal of Rail Transportation, Nov 2018; https://doi.org/10.1080/23248378.2018.1550626.
- Iranitalab*, Amirfarrokh and **Aemal J. Khattak**. Train-level and tank car-level modeling of hazardous materials release in railroad incidents. Transportation Research Record 2672(9), Journal of the Transportation Research Board, Oct 2018 (p249-260); https://doi.org/10.1177/0361198118801337.
- Zhao*, Shanshan and **Aemal J. Khattak**. Direct and indirect effects of Nebraska motor vehicle drivers' characteristics on inattentive driving at highway-rail grade crossings. Transportation Research Record, Journal of the Transportation Research Board, Sep 2018; https://doi.org/10.1177/0361198118794067.
- Khan*, Waleed A., and **Aemal J. Khattak**. Injury severity of truck drivers in crashes at highway-rail grade crossings in the United States. Transportation Research Record 2672(10), Journal of the Transportation Research Board, Jun 2018 (p 38-47); https://doi.org/10.1177/0361198118781183.
- Zhao*, Shanshan, Amirfarrokh Iranitalab* and **Aemal J. Khattak**. A clustering approach to injury severity in pedestrian-train crashes at highway-rail grade crossings. Journal of Transportation Safety and Security, Feb 2018; https://doi.org/10.1080/19439962.2018.1428257.

**Relevant External Service:**

- (2021-Present) Editorial Board Member, International Journal of Urban and Regional Planning
- (2020-Present) Inaugural editorial board member (Handling Editor), Transportation Research Records, Transportation Research Board
- (2014-Present) Area Editor, Journal of Transportation Safety and Security (SCI-indexed)
- (2015-2021) Immediate Past Chair, Transportation Research Board Standing Committee on Highway/Rail Grade Crossings (AR080)
- (2016) Guest Editor, Special Issue on Railroad Safety