

2021 DANIEL B. FAMBRO STUDENT PAPER AWARD

MINGJIAN WU, M.SC.



Mingjian Wu, M.Sc., a Ph.D. student at the University of Alberta, Canada, has received the 2021 Daniel B. Fambro Student Paper Award for his paper “A Citywide Location–Allocation Framework for Driver Feedback Signs Optimizing Safety and Coverage of Vulnerable Road Users.” The award recognizes a student member of ITE for preparing a significant paper reporting on independent and original research and investigation of a transportation–related topic. It honors the work and legacy of the late Daniel B. Fambro, who was a professor at Texas A&M University and an associate research engineer at the Texas A&M Transportation Institute.

The objectives of this award–winning study were to examine and capture the key Driver Feedback Sign (DFS)–location factors and to develop a formal mathematical programming approach for optimizing DFS sites that are tailored specially for urban settings. Likewise, the location model will incorporate safety effectiveness and other practical factors such as vulnerable road users and facilities. The paper will be published in an upcoming issue of the *ITE Journal*.

After successfully defending his M.Sc. thesis, Mingjian started his Ph.D. career at the University of Alberta under the supervision of Dr. Tae J. Kwon in January 2020. During his MSc studies, he focused on quantifying the safety effects of DFS and its location allocation strategies under the co–supervision of Dr. Tae J. Kwon and Dr. Karim El–Basyouny. Mingjian has published seven publications, and his current research interests are Artificial Intelligence (AI) and Big Data analysis in winter transportation engineering, traffic safety, and facility location–allocation optimizations.

Upon winning the award, Mingjian said, “I would first like to express my sincere gratitude to my supervisors Dr. Tae Jung Kwon and Dr. Karim El–Basyouny and thank them for all the support they give me during all my studies. It is my great fortune to meet such supportive supervisors as their mentorship is invaluable to me. I also appreciate ITE for selecting me as the recipient of this award and CITE and City of Edmonton for all their support in various ways.”