

TRAFFIC AND SAFETY

Arizona Department of Transportation Research Center



Appreciate synchronized traffic signals and pedestrian crosswalks? Thank a traffic engineer!

These and other means to a safer and smoother flow of traffic are the focus of the **traffic and safety emphasis area**. Practitioners not only apply engineering principles to help solve traffic problems, but take into account the psychology and habits of users of the transportation system. Research in traffic and safety addresses topics that include traffic data collection and analysis, operational strategies to reduce congestion and crash rates, and the geometric design of roadways.

Representative Projects

SPR 670: Restraint Use (Seat Belt and Child Passenger Seat) Survey in Arizona. A study to identify why – or why not – those who travel by auto in Arizona use seatbelts, and to develop recommendations on the most effective means to get drivers to buckle up. *Published.*

SPR 592: Building Tribal Traffic Safety Capacity. An identification of strategies for reducing the motor vehicle crash mortality rate among Native American tribal members in Arizona. The study included recommendations for the tribes to develop safety capacity in five areas: decision making; data collection, storage, maintenance, and integration with other programs; equipment and software; project prioritization; project development, implementation, and evaluation. *Published.*

AZ 684: Evaluation of the City of Scottsdale Loop 101 Photo Enforcement Demonstration Program. An evaluation of the nation's first use of fixed-site photo enforcement equipment. The study estimated the impact of the speed enforcement program on speeding behavior, changes in mean speed, overall traffic safety in the enforcement zone, and travel time, as well as the economic impacts of the safety effects. *Published.*

Project Manager

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Jason first joined ADOT in 1998 as an intern, and was accepted into ADOT's Engineer-In-Training (EIT) program the following year. As an EIT, he spent 24 months working in various sections throughout the Department. Prior to joining the ADOT Research Center in 2006, Jason spent a year working as a Project Engineer for the City of Chandler's Construction Management team, where he was directly involved in construction projects that included a new municipal office building, expansion of a heliport, new utility installations, and a \$10 million design/build project for improvements to Gilbert and Pecos Roads.

