

| UTC Project Information | |
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| Project Title | Identifying High-Risk Built Environments for Severe Bicycling Injuries |
| University | University of Washington |
| Principal Investigator | Qing Shen |
| PI Contact Information | qs@uw.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | University of Washington PacTrans \$55,693 University of Washington \$ 55,693 |
| Total Project Cost | \$111,386 |
| Agency ID or Contract Number | DTRT13-G-UTC40 |
| Start and End Dates | September 16, 2015– March 31, 2017 |
| Brief Description of Research Project | <p>The rise of eco-friendly lifestyles has contributed to the increasing popularity of bicycling in the US. However, cyclist crash injuries remain as a serious public health problem. While the number of deaths in traffic crashes has declined significantly over the past four decades (NHTSA 2012a), the number of injured cyclists increased from 45,000 in 2001 to 49,000 in 2012. The percentage of cyclist fatalities among total traffic deaths increased from 1.7% to 2.2% in the same period (NHTSA 2012b). Thus, it is important to understand what factors are associated with cyclist injuries, especially severe injuries.</p> <p>This proposed research is aimed at advancing our understanding of the effects of built environment factors on cyclist injury severity by addressing the following three questions:</p> <ol style="list-style-type: none"> 1. Are built environment and cyclist injury severity correlated? If so, what built environment factors most significantly and importantly contribute to severe bicycling injuries? 2. Are the identified statistical associations varied significantly among cities with different levels of bicycling and different built environments? 3. Are the identified statistical associations different for bicycle crashes that involve no motor vehicle? |

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| <p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p> | <p>The primary research outcomes are the following:</p> <ol style="list-style-type: none"> 1. Project report entitled “Identifying High-Risk Built Environments for Severe Bicycling Injuries” (authors: Qing Shen and Peng Chen) 2. Refereed journal article: Chen, P. and Q. Shen. 2019. Identifying High-Risk Built Environments for Severe Bicycling Injuries. Journal of Safety Research, Vol. 68, pp. 1-7. <p>This research was intended for an academic publication, not for a practical program.</p> |
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| <p>Impacts/Benefits of Implementation (actual, or anticipated)</p> | <p>The resulting refereed paper is expected to generate major impacts because the findings are important, and because the Journal of Safety Research is a major outlet for transportation safety research.</p> |
| <p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project Website | <p>Please see the website for PacTrans.</p> |