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EDUCATION & PROFESSIONAL EXPERIENCE

- + Ph.D., Civil Engineering, University of Arkansas, 2005
- + MSCE, Civil Engineering, University of Arkansas, 2003
- + Bachelor of Civil Engineering, National University of Civil Engineering, Vietnam, 1995
- + Auburn University, NCAT, Assoc./Asst. Director (01/18–Present).
- + Auburn University, Civil & Env. Engineering, Full/Assoc./Asst. Research Prof. (07/08–Present).
- + Auburn University, NCAT, Lead Researcher (06/07–06/08).
- + Registered Professional Engineer: Arkansas
- + LEED Green Associate

SUMMARY

Dr. Tran has over 18 years of experience conducting research and implementing innovative technologies related to asphalt materials and flexible pavements, as well as over 4 years of experience in roadway and power plant construction. He has served as Principal Investigator (PI) or co-PI on 70 research projects with approximately \$15 million in total funding. He has authored/co-authored over 130 papers and technical reports on asphalt materials and flexible pavements. His experience related to this proposal includes serving as PI and co-PI for the FHWA Climate Challenge studies in Alabama and Mississippi and as a subject matter expert in resource-responsible pavement materials, long-life flexible pavement design, life cycle costs analysis, and life cycle assessment.

RELEVANT PROJECTS

- + PI, Climate Challenge – GHG Emissions for BMD Mixtures in Alabama (funded by FHWA). This project quantifies GHG emissions from the production and construction of BMD mixtures with recycled materials and recycling agents.
- + Co-PI, Climate Challenge – GHG Emissions for Cold Recycled Mixtures in Mississippi (funded by FHWA). This project quantifies GHG emissions from producing and constructing FDR and CCPR mixtures.
- + PI, Durable Recycled Pavements using High Oleic Soybean Oil Polymer Modifiers (funded by United Soybean Board). This study evaluates a soybean-based polymer-modified mix's field performance and carbon footprint.
- + PI, Optimization of Asphalt Mixture Performance with Rejuvenator (sponsored by Cargill). This project evaluates the field performance and carbon footprint of a BMD recycled mixture produced with a rejuvenator.

RELEVANT PUBLICATIONS

- + Timm, D. H., F. Yin, N. Tran, M. Foshee, C. Rodezno. "Comparison of Relative Structural Characterization Methods for Additive-Modified Asphalt Mixtures," Transportation Research Record, 2022.
- + Robbins M., N. Tran and A. Copeland. "Determining the Age and Smoothness of Asphalt and Concrete Pavements at the Time of First Rehabilitation using LTPP Program Data," Transportation Research Record 2672 (40), 2019, pp 176-185.
- + Additional publications: <https://aub.ie/TranGoogleScholar>