

SRUANGSAENG CHAIKASETSIN



Sruangsaeng Chaikasetzin is a PhD student in Transportation Engineering at the University of Washington. With more than ten years of professional experience in civil engineering at the Department of Highways (DOH), Ministry of Transport, Thailand, her expertise includes pavement materials, highway design, traffic operations, and Intelligent Transportation Systems (ITS). She has also served as a project manager at the Thailand Highway Traffic Operations Center, gaining extensive experience in traffic management and ITS deployment on national highway networks.

RELEVANT EXPERIENCE

Research Projects

- Student Research Assistance, Smart Transportation Applications and Research (STAR) Lab, University of Washington, Seattle
 - o “Smart Sensor for Snow Avalanche Monitoring Phase 2”. Washington State Department of Transportation. (December 2024 – September 2025)
 - o “Low-Cost Internet of Things Sensors to Support Avalanche Monitoring Programs”. NCHRP IDEA Program Transportation Research Board. (January 2025 – June 2026)
 - o “Real-Time Traffic Signal Safety Interventions (RTSSI) for Detection Equipment Validation and Anomaly Analysis”. City of Bellevue (June 2025 – present)
 - o “Northwestern Tribal Technical Assistance Program (NW TTAP) Center”. U.S. Department of Transportation. (January 2026 – present)

Research Conference Presentations

- **Chaikasetzin, Srungsaeng**, Mehrdad Nasri, Chenxi Liu, and Yinhai Wang. “Zero-shot Learning based Cyclists Detection through Surveillance Systems”. AI in Motion Symposium (May 16, 2024, TxDOT)
- **Chaikasetzin, Srungsaeng**, Mehrdad Nasri, Chenxi Liu, and Yinhai Wang. “Zero-shot Learning based Cyclists Detection through Surveillance Systems”. NaTMEC 2024 (June 4, Boise, Idaho)
- **Chaikasetzin, Srungsaeng**, Jonah Lorica, and Yinhai Wang. “Crash-Modification Factors and Severity-Weighted Risk Reduction for Shared-Use Path and Roundabout Treatments on the Haxton Way Corridor, Lummi Reservation, WA.” Presented by Srungsaeng Chaikasetzin at the 105th Annual Meeting of Transportation Research Board, Jan. 2026.
- **Chaikasetzin, Srungsaeng**, Mehrdad Nasri, Chenxi Liu, and Yinhai Wang. “Zero-shot Learning based Cyclists Detection through Surveillance Systems.” Presented by Srungsaeng Chaikasetzin at the 2025 ASCE International Conference on Transportation and Development. June 10, 2025.
- **Chaikasetzin, Srungsaeng**, Mehrdad Nasri, Hanyi Yang, Chenxi Liu, and Yinhai Wang. “Zero-Shot Learning-Based Cyclists Detection Through Surveillance Systems.” Presented by Srungsaeng Chaikasetzin at the 104th Annual Meeting of Transportation Research Board, Jan. 2025.

YEARS OF EXPERIENCE

Total: 13

WORK EXPERIENCE

- Professional Civil Engineer, Traffic Data Collection and Planning Group, Bureau of Highway Safety, DOH, Thailand (May 2017 – Sep. 2023)
- Practitioner Civil Engineer, Bureau of Materials, Analysis and Inspection, DOH, Thailand (Aug. 2012 – Apr. 2017)
- PhD Student, Transportation Engineering, University of Washington, Seattle, WA (Sep. 2023 – present)

TRAINING

- KOICA: Achieving Effective Transportation Using ITS (2020)
- JICA: Practical Technology on Intelligent Transport System, Tokyo, Japan (2019)

EDUCATION

- M.S., Civil Engineering-Transportation, University of Illinois at Urbana-Champaign (2015)
- B.Eng., Civil Engineering, Sirindhorn International Institute of Technology, Thailand (2012)