Alican Sevim, Ph.D.

Postdoctoral Research Scholar of Civil and Environmental Engineering

Florida State University

Resilient Infrastructure and Disaster Response (RIDER) Center

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Education

Ph.D. in Civil Engineering **August 2025**
Florida State University, USA

Master of Science in Civil Engineering **May 2020**
Columbia University in the City of New York

Bachelor of Science in Civil Engineering **January 2018**
Istanbul Technical University, Istanbul, Türkiye

Work Experience

Postdoctoral Research Scholar at FAMU-FSU College of Engineering	08/2025 - Present
Graduate Research Assistant at FAMU-FSU College of Engineering	05/2024 – 08/2025
Graduate Research Assistant at University of Central Florida	08/2022 - 05/2024
Research Associate at Columbia University	08/2019 - 05/2020

Funded Research Projects

- "Multi-Sensor Fusion for Proactive Commercial Motor Vehicle Safety at Work Zones", Federal Motor Carrier Safety Administration (FMCSA) grant FM-MHP-0792.

PUBLICATIONS

Peer-Reviewed Journals

1. Barbour, N., Abdel-Aty, M., & Sevim, A. (2023). Intended work from home frequency after the COVID-19 pandemic and the role of sociodemographic, psychological, disability, and

work-related factors. Transportation Research Part A: Policy and Practice, 179, 103923. ISSN 0965-8564. https://doi.org/10.1016/j.tra.2023.103923

2. Luleci, F., Sevim, A., Ozguven, E. E., & Catbas, F. N. (2024). Community Twin Ecosystem for Disaster Resilient Communities. Smart Cities, 7(6), 3511-3546. https://doi.org/10.3390/smartcities7060137
3. Sevim, A., Guo, Q., & Ozguven, E. E. (2025). A simulation-based framework for leveraging shared autonomous vehicles to enhance disaster evacuations in rural regions with a focus on vulnerable populations. Journal of Infrastructure Preservation and Resilience, 6(10). https://doi.org/10.1186/s43065-025-00122-6
4. Sevim, A., Ozguven, E. E., Guo, Q., & Schonfeld, P. (2025). Dynamic mode control for transit services in disaster evacuations using a Hawkes-based jump-diffusion process. SSRN. http://dx.doi.org/10.2139/ssrn.5135786 (*under review at Transportation Research Part C: Emerging Technologies*)
5. Sevim, A., Ozguven, E. E., Guo, Q., Rahman, M., Khan, S., Zhao, L., & Huynh, N. (2025). Microscopic conflict prediction in work zones: A simulation-driven approach using extreme value theory (*under review at Transportation Research Interdisciplinary Perspectives*)

Conference Papers

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1. Sevim, A., Ozguven, E. E., Schonfeld, P., & Guo, Q. (2026). Dynamic mode switching for transit services in disaster evacuations using jump–diffusion processes. Accepted for presentation, Transportation Research Board (TRB) 105th Annual Meeting, Washington, DC.
2. Ahmad, M. U., Rahman, M., Sevim, A., et al. (2026). Historical prediction attention mechanism–based trajectory forecasting for proactive work zone safety in a digital twin environment. Accepted for presentation, Transportation Research Board (TRB) 105th Annual Meeting, Washington, DC.
3. Sevim, A., Guo, Q., & Ozguven, E. E. (2026). A simulation-based framework for leveraging shared autonomous vehicles to enhance disaster evacuations in rural regions with a focus on vulnerable populations. Accepted for presentation, Transportation Research Board (TRB) 105th Annual Meeting, Washington, DC.