



CURRICULUM VITAE



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Education

1. Ph.D. in Civil Engineering, 2022, Michigan State University, USA
2. M.Sc. in Civil Engineering, 2018, Iowa State University, USA
3. B.Eng. (Civil), 2014, Universiti Putra Malaysia, Malaysia

Areas of interest

1. Traffic safety
2. Highway design
3. Driver Behavior

Professional Qualification/Membership/Affiliation

1. Member, Board of Engineers Malaysia
2. Member, Malaysian Society for Engineering and Technology
3. Member, Institute of Transportation Engineers
4. Member, American Society of Civil Engineers

Appointments

Position	Duration
1 Senior Lecture, Department of Civil Engineering, Universiti Putra Malaysia	June 2023-present
2 Research Associate, Department of Civil and Environmental Engineering, Michigan State University	September 2022-May 2023
3 Graduate Research Assistant, Department of Civil and Environmental Engineering Michigan State University	August 2018-August 2022
4 Graduate Research Assistant, Department of Civil, Construction and Environmental Engineering, Iowa State University	August 2016-May 2022
5 Design Engineering, Sepakat Setia Perunding Sdn. Bhd.	January 2015-September 2015

Publications

Journals

- 1 Gupta, N., **Megat-Johari, M. U.**, Jashami, H., & Savolainen, P. (2022). How is Traffic Safety Affected by Changes in Travel Speeds Following Speed Limit Increases? An Evaluation with Probe Vehicle Data. *Traffic Safety Research: An International Journal*, 3, 000017.
- 2 Bamney, A., Gupta, N., Jashami, H., **Megat Johari, M. U.**, and Savolainen, P. T. (2022). An

- Analysis of Changes in County-Level Travel Behavior Considering COVID-19-Related Travel Restrictions, Immunization Patterns, and Political Leanings. *Journal of Transportation Engineering, Part A: Systems*, 148(11), 04022096.
- 3 Mahmud, M. S., Bamney, A., **Megat-Johari, M. U.**, Jashami, H., Gates, T. J., and Savolainen, P. T. (2022). Evaluating Driver Response to a Dynamic Speed Feedback Sign on Rural Highways Curves. *Transportation Research Record: Journal of the Transportation Research Board*, 03611981221112401.
 - 4 Mahmud, M. S., **Megat-Johari, M. U.**, Bamney, A., Jashami, H., Gates, T. J., and Savolainen, P. T. (2022). Driver Response to a Dynamic Speed Feedback Sign at Speed Transition Zones along Rural Highways. *Transportation Research Record: Journal of the Transportation Research Board*, 03611981221112942.
 - 5 Megat-Johari, N., **Megat-Johari, M. U.**, Savolainen, P. T., & Gates, T. J. (2022). Evaluation of Enforcement and Messaging Campaign Focused on Reducing Cell Phone-Related Distracted Driving. *Transportation Research Record: Journal of the Transportation Research Board*, 2677(1), 1741-1752.
 - 6 **Megat-Johari, M. U.**, Megat-Johari, N., Savolainen, P. T., & Gates, T. J. (2022). Safety Evaluation of Freeway Exit Ramps with Advisory Speed Reductions. *Transportation Research Record: Journal of the Transportation Research Board*, 2677(1), 503-512.
 - 7 Bamney, A., Jashami, H., Sonduru Pantangi, S., Ambabo, J., **Megat-Johari, M. U.**, Cai, Q., Gupta, N., & Savolainen, P. T. (2021). Examining Impacts of COVID-19-Related Stay-At-Home Orders through a Two-Way Random Effects Model. *Transportation Research Record: Journal of the Transportation Research Board*, 03611981211046921.
 - 8 **Megat-Johari, M. U.**, Megat-Johari, N., Savolainen, P. T., Gates, T. J., & Kassens-Noor, E. (2021). Does Displaying Safety Messages on Dynamic Message Signs have Measurable Impacts on Crash Risk? *Transportation Research Record: Journal of the Transportation Research Board*, 2676(2), 516-528.
 - 9 Megat-Johari, N., **Megat-Johari, M. U.**, Savolainen, P., Gates, T., & Kassens-Noor, E. (2021). Examining Driver Compliance with a Move-Over/Slow Down Law in Consideration of Vehicle Type and Messages Displayed on Upstream Dynamic Message Signs. *Transportation Research Record: Journal of the Transportation Research Board*, 2675(12), 92-102.
 - 10 Chawla, H., **Megat-Johari, M. U.**, Savolainen, P. T., & Day, C. M. (2021). Evaluation of Strategies to Mitigate Culvert-Involved Crashes. *Transportation Research Record: Journal of the Transportation Research Board*, 2675(5), 403-417.
 - 11 Hamzeie, R., **Megat-Johari, M. U.**, Thompson, I. M., Barrette, T. P., Kirsch, T. J., & Savolainen, P. T. (2019). Examining Safety on Two-Lane and Multilane Highways in Consideration of Access Spacing. *Transportation Research Record: Journal of the Transportation Research Board*, 2673(11), 388-397.
 - 12 **Megat-Johari, M. U.**, & Cyr, J. (2018). Transferability of Safety Performance Functions Across Jurisdictions: A Comparison between Minnesota, Ohio, and Washington Using HSIS Data. *Institute of Transportation Engineers Journal*, 88(8), 41-48.
 - 13 **Megat-Johari, M. U.**, Bazargani, B., Kirsch, T. J., Barrette, T. P., & Savolainen, P. T. (2018). An examination of the Safety of Signalized Intersections in Consideration of Nearby Access Points. *Transportation Research Record: Journal of the Transportation Research Board*, 2672(17), 11-21.

Conference Proceedings

- 1 Cai, Q., Hallmark, B., Megat-Johari, N., **Megat-Johari, M. U.**, Barrette, T. P., Kirsch, T. J., and P. T. Savolainen, A Cross-Sectional Comparison of the Safety Performance of

- Roundabouts versus Intersections with Other Types of Traffic Control. *Proceedings from the 7th Road Safety & Simulation International Conference*, Iowa City, Iowa, 2019.
- 2 Cai, Q., **Megat-Johari, M. U.**, Abatan, A., Chawla, H., Kirsch, T., Sorenson, W., and P. T. Savolainen, Investigation of the Prevalence of Wrong-Way Driving. *Proceedings from the 98th Annual Meeting of the Transportation Research Board*, Washington D.C., 2019. (19-03743).
 - 3 Kirsch, T. J., Hamzeie, R., Nightingale, E. **Megat-Johari, M. U.**, and P. T. Savolainen, An Examination of the Cost-Effectiveness of Median Cable Barrier Systems. *Proceedings from the 97th Annual Meeting of the Transportation Research Board*, Washington D.C., 2018. (18-00006).
 - 4 **Megat-Johari, M. U.**, Chawla, H., Savolainen, P. T., and C. M. Day, In-Service Evaluation and Comparison of Design Alternatives for Culvert Safety Treatments. *Proceedings from the 6th International Symposium on Highway Geometric Design*, Amsterdam, Netherlands. (Paper No. 247).
 - 5 **Megat-Johari, M. U.**, Megat-Johari, N., Savolainen, P. T., and T. J. Gates, Evaluation of a Targeted Enforcement Campaign Focused on Distracted Driving *Proceedings from the 2022 ASCE International Conference on Transportation & Development*, Seattle, WA, 2022. (Paper No. 1925943).
 - 6 Mahmud, M. S., **Megat-Johari, M. U.**, Bamney, A., Jashami, H., Gates, T. J., & Savolainen, P. T. Driver Response to a Dynamic Speed Feedback Sign at Speed Transition Zones along Rural Highways. *Proceedings from the 2022 ASCE International Conference on Transportation & Development*, Seattle, WA, 2022. (Paper No. 1925944).

Awards/Recognition				
Award Title	Award Authority	Level	Year	
1 Outstanding Ph.D. Student Award	Civil and Environmental Engineering Department, Michigan State University	University	2022	
2 Outstanding Paper Award	Standing Committee on Highway Traffic Monitoring, Transportation Research Board	National (USA)	2021	
3 Scholarship	Institute of Transportation Engineers	State (USA)	2019	
4 Best Paper Award: Highway Safety Information System Excellence in Highway Safety Data Competition	Federal Highway Administration	National (USA)	2018	