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NAME **Paul Allan Green**

TITLE

Lecturer (SI = School of Information)
Research Professor (UMTRI), Adjunct Professor (COE)
Research Professor (COE=College of Engineering, IOE)
Adjunct Professor (COE=College of Engineering, IOE)

RESEARCH AREAS

Driver workload, driver distraction, driver interfaces, human-computer interaction

EMPLOYMENT/ APPOINTMENT HISTORY

2024-present.	**Lecturer, School of Information**
2020-present	**Leader, Human Factors Group**
2014-present	**Research Professor, Industrial & Ops. Eng.**
2014-present	**LEO Adjunct Professor, Industrial & Ops. Eng.**
2013-present	**Member, Injury Research Center**
2012-present	**Affiliate, Ctr. for Healthcare Eng. & Patient Safety**
2008-present	**Research Professor, Driver Interface Group**
2008-2020	Leader, Driver Interface Group
2010-2013	LEO Adjunct Professor, Industrial & Ops. Eng.
2010-2013	Adjunct Professor, Industrial & Operations Engineering
2007-2008	Adjunct Associate Professor, School of Information
2004-2008	Research Professor, UMTRI Human Factors Division
2005-2010	LEO Adjunct Assoc. Professor, Industrial & Ops. Eng.
1998-2004	Senior Research Scientist, Human Factors Div., UMTRI
1998-1998	Professional Collaborator, Dept. of Mechanical Engineering, Iowa State Univ.
1993-2010	Adjunct Associate Professor, Industrial & Ops. Eng.
1993-1996	Adjunct Associate Professor, Dept. of Mechanical Eng. and Applied Mechanics
1992-1993	Adjunct Assistant Professor, Dept. of Mechanical Eng. and Applied Mechanics
1988-1997	Assoc. Research Scientist, Human Factors Div., UMTRI
1979-1988	Asst. Research Scientist, Human Factors Div., UMTRI
1982-1993	Adjunct Assistant Professor, Industrial & Ops. Eng.
1984-1985	Adj. Assistant Prof., Industrial Design, School of Art
1980-1982	Lecturer, Industrial and Operations Engineering
1980-1980	Lecturer, Department of Psychology

EDUCATION

Ph.D. (joint), 1979, Industrial & Operations Engineering and Psychology, University of Michigan
M.A., 1979, Psychology, University of Michigan
M.S.E., 1974, Industrial & Operations Engineering, U. of Michigan
B.S., 1972, Mechanical Engineering (co-op program), Drexel University

AWARDS/ HONORS

2024 Human Factors and Ergonomics Society, Arnold M. Small and Betty M. Sanders President's Distinguished Service Award (their most important award) - https://youtu.be/d0qs7A86GFw
2023. Human Factors Titan (2nd group)
2013 Fellow, Human Factors and Ergonomics Society (HFES)
2008 Certified Human Factors Professional, Board of Certification in Professional Ergonomics
199? Fellow, Chartered Institute of Ergonomics and Human Factors
~2003 – current certificates for service each year from HFES
1990 Society of Automotive Engineers, SAE Oral Presentation Award
1984 Society of Automotive Engineers, SAE Oral Presentation Award

MEMBERSHIP IN SOCIETIES

Human Factors and Ergonomics Society (HFES, Fellow)
Member, Executive Council
Member, Policy and Planning Committee
HFES Government Relations Committee
– member of Transportation Subcommittee
Faculty advisor, University of Michigan HFES student chapter
(note: The chapter has won several HFES gold awards for excellence. They should win a gold award again this year.
Board of Certification in Professional Ergonomics (member)
Member, Board of Directors (stepped down from Board in 2016)
Chartered Institute of Ergonomics and Human Factors (Fellow)
Society of Automotive Engineers (member)
Member Safety and Human Factors Steering Committee
Founder, SAE J2944 Committee
Member, SAE Driver Metrics, Performance, Behaviors, and States Committee
Member, SAE J3151 Editing Committee
Member, SAE Controls and Displays Standards Committee
Member, SAE TSB Standards in the Classroom Advisory Group
American Society of Safety Professionals – subcommittee only
ANSI/ASSE TR Z15.3-201X - Safe Practices for Motor Vehicle Operations
American National Standards Institute – Committee on Education (member)

PUBLICATIONS

Peer-Reviewed Journal Papers

51. Quinn, M., Engle, J.M., fowler, K.F., Harrod, M., Clive, D., Ehrlinger, R., Houchens, N., Green, P., and Saint, S. (2025, accepted for publication). Patient Journeys: A Qualitative Assessment Exploring Patient Availability and Interest in Whole Health Services, *Journal of Patient Safety*,

50. Li, G., Yan, J., Qiu, Y., Li, Q., Li, J., Li, S.E. and Green, P. (2025). Lightweight Strategies for Decision-Making of Autonomous Vehicles in Lane Change Scenarios Based on Deep Reinforcement Learning, *IEEE Transactions on Intelligent Transportation Systems*.

49. Guo, Z., Chang, X., Li, G., Zhou, M., Yuan, B., Xu, H., ... & Green, P. (2024). The Effectiveness of Tactile Intervention Sensors in Mitigating Fatigue of High-Speed Railway Drivers. *IEEE Sensors Journal*.

48. Li, G., Zhang, L., Li, C., Li, Z., Gao, F., Zheng, L., & Green, P. (2024). Investigating the Influence of Driving on Brain Connectivity Networks and Emotion Processing Mechanism Based on EEG Signals. *IEEE Sensors Journal*.

47. Li, G., Yuan, Y., Li, C., Li, Q., Li, W., Li, Z., & Green, P. (2024). A super-resolution framework for emotion recognition based on EEG signals. *IEEE Sensors Journal*. Guo, Z., Chang, X., Li, G., Zhou, M., Yuan, B., Xu, H., ... & Green, P. (2024). The Effectiveness of Tactile Intervention Sensors in Mitigating Fatigue of High-Speed Railway Drivers. *IEEE Sensors Journal*.

46. Li, G., Qiu, Y., Yang, Y., Li, Z., Li, S., Chu, W., Green, P., and Li, S.E. (2023). Lane Change Strategies for Autonomous Vehicles: A Deep Reinforcement Learning Approach Based on Transformer, *IEEE Transactions on Intelligent Vehicles*, 8(3), 2197-2211.

45. Li, G., Olaverri-Monreal, C., Zhang, H., Li, K., & Green, P. (2023). Preface for Human-Like Smart Autonomous Driving for Intelligent Vehicles and Transportation Systems. *Automotive Innovation*, 1-2.

44. Li, G., Wu, X., Eichberger, A., Green, P., Olaverri-Monreal, C., Yan, W., ... & Li, Y. (2023). Drivers' EEG Responses to Different Distraction Tasks. *Automotive Innovation*, 1-12.

43. Li, Guofa, Delin Ouyang, Yufei Yuan, Wenbo Li, Zizheng Guo, Xingda Qu, and Paul Green. (2022). An EEG data processing approach for emotion recognition. *IEEE Sensors Journal*.

42. Li, G., Qiu, Y., Yang, Y., Li, Z., Li, S., Chu, W., ... & Li, S. E. (2022). Lane change strategies for autonomous vehicles: a deep reinforcement learning approach based on transformer. *IEEE Transactions on Intelligent Vehicles*.

41. Green, P. (2022). *Estimating the Workload of Driving Using Video Clips As Anchors* (No. 2022-01-0805). SAE Technical Paper. (later published in *SAE International Journal of Advances and Current Practices in Mobility*, also listed in Proceedings papers).

40. Li, G., Yang, L., Li, S., Luo, X., Qu, X., & Green, P. (2021). Human-like decision making of artificial drivers in intelligent transportation systems: An end-to-end driving behavior prediction approach. *IEEE Intelligent Transportation Systems Magazine*.

39. Li, G., Wang, Y., Zhu, F., Sui, X., Wang, N., Qu, X., & Green, P. (2019). Drivers' visual scanning behavior at signalized and unsignalized intersections: A naturalistic driving study in China. *Journal of Safety Research*, *71*, 219-229.

38. Li, G., Zhu, F., Qu, X., Cheng, B., and Green, P. (2019). Driving Style Classification Based on Driving Operational Pictures, IEEE Access.

37. Shen, J., Li, G., Yan, W., Tao, W., Xu, G., Diao, D., & Green, P. (2018). Nighttime Driving Safety Improvement via Image Enhancement for Driver Face Detection. *IEEE Access*, *6*, 45625-45634.

36. Liao, Y., Li, G., Li, S., Cheng, G.B., and Green, P. (2018). Understanding Driver Response Patterns to Mental Workload Increase in Typical Driving Scenarios, *IEEE Access 6*(1), 35890-35900.

35. Green, P., Cheydleur, G., Deng, R., and Sanchez, R. (2017). Free Smartphone Apps to Support Human Factors / Ergonomics Work, *Ergonomics in Design, 28*(1), 4-16.

34. Zhou, S., Jeong, H., & Green, P. A. (2017). How Consistent Are the Best-Known Readability Equations in Estimating the Readability of Design Standards? *IEEE Transactions on Professional Communication*, *60*(1), 97-111.

33. Li, G., Li, S.E., Cheng, B., and Green, P. (2017). Estimation of Driving Style in Naturalistic Highway Traffic Using Maneuver Transition Probabilities, *Transportation Research Part C: Emerging Technologies, 74,* 113-125.

32. Li., G., Wang, W., Li, S.E., Cheng, B. and Green, P. (2014). Effectiveness of Flashing Brake and Hazard Systems in Avoiding Rear-End Crashes, *Advances in Mechanical Engineering*, *2014.*

31. Klinich, K.D., Manary, M.A. Flannagan, C.A.C., Ebert, S.M., Malik, L.A., Green, P.A. and Reed, M.P. (2014). Effect of Child Restraint Features on Installation Errors, *Applied Ergonomics, 45*(2), 270-277.

30. Akamatsu, M., Green, P., and Bengler, K. (2013). Automotive Technology and Human Factors Research: Past, Present and Future, *International Journal of Vehicular Technology*

29. Cai, H., Green, P. A. & Kim, J. J. (2013). Estimating the Legibility of a Single Letter E Viewed at Different Display Angles, *Applied Ergonomics*, July, *44*(4), 575-587.

28. Green, P. and Park, J.-S. (2013). Evaluation of a Navigation Radio Using the Think-Aloud Method, *International Journal of Vehicular Technology*.

27. Lo, V. E-W. and Green, P.A. (2013). Development and Evaluation of Automotive Speech Interfaces: Useful Information from the Human Factors and Related Literature, *International Journal of Vehicular Technology*.

26. Lo, V. E-W., Green, P.A., and Franzblau, A. (2011). Where Do People Drive? Navigation System Use by Typical Drivers and Auto Experts, *Journal of Navigation*, *64*(2), 357-373.

25. Cai, H., Kim, J-J., and Green, P.A. (2011). Computational Assessment of Text Legibility in Lecture Halls, *Indoor and Built Environment*, *20*(3), 321-332.

24. Green, P. (2010). What Should We Look for in HFES Officers? *Human Factors and Ergonomics Society Bulletin*, Santa Monica, CA: Human Factors and Ergonomics Society.

23. Cai, H. and Green, P. (2009). Legibility Index for Examining Common Viewing Situations: A New Definition Using Solid Angle, *Leukos*, April, *5*(4), 279-295.

22. Lin, T-W, Hwang, S-L, and Green, P.A. (2009). Effects of Time-Gap Settings of Adaptive Cruise Control (ACC) on Driving Performance and Subjective Acceptance in a Bus Driving Simulator, *Safety Science*, *47*(5), 620-625.

21. Green, P. (2009). The Next Year in HFES, *Human Factors and Ergonomics Society Bulletin*, Santa Monica, CA: Human Factors and Ergonomics Society.

20. Green, P. (2008). Using Haikus, Limericks, and Other Poetic Forms to Summarize Human Factors Literature, *Ergonomics in Design*, *16*(4), 23-24.

19. Tsimhoni, O., Smith, D., and Green, P. (2004). Address Entry while Driving: Speech Recognition versus a Touch-screen Keyboard, *Human Factors*, *46*(4), 600-610.

18. Backs, R.W., Leneman, J.K., Wetzel, J.M., and Green, P. (2004). Cardiac Measures of Driver Workload during Simulated Driving with and without Visual Occlusion, *Human Factors*, *45*(4), 525-538.

17. Tsimhoni, O., Green, P., and Lai, J. (2001). Natural and Synthesized Speech while Driving: Effects on User Performance, *International Journal of Speech Technology*, *4*(2), 155-169 (http://www.wkap.nl/article.pdf?350278).

16. Nowakowski, C., Green, P., and Kojima, M. (2000). How to Design a Traffic-Information Web Site: A Human Factors Approach, *ITS Quarterly* (summer 2000 issue), 41-51.

15. Reed, M. and Green, P. (1999). Comparison of Driving Performance on-Road and in a Low-Cost Driving Simulator Using a Concurrent Telephone Dialing Task, *Ergonomics*, *42*(8), 1015-1037.

14. Bieliauskas, L.A., Roper, B.R., Trobe, J., Green, P., and Lacy, M. (1998). Cognitive Measures, Driving Safety, and Alzheimer's Disease, *The Clinical Neuropsychologist*, *12*(3), 206-212.

13. Steinfeld, A. and Green, P. (1998). Driver Responses to Navigation Information on Full-Windshield, Head-Up Displays, *International Journal of Vehicle Design*, *19*(2), 135-149.

12. Green, P. (1996). Customer Needs, New Technology, Human Factors, and Driver Science Research for Future Automobiles (in Japanese), *Journal of the Japan Society of Mechanical Engineers, 99*(926), 15-18.

11. Green, P. (1996). Development of Easy-to-Understand Vehicle Malfunction Warnings, *International Journal of Vehicle Design*, *17*(1), 27-39.

10. Chatel, D.C., Bieliauskas, L.A., Green, P., Warner, J. and McSweeny, A.J. (1993). Cognitive Predictors of Driving Ability in the Elderly (abstract). *The Clinical Neuropsychologist*, *7*, 330.

9. Green, P. and Brand, J. (1992). Future In-Car Information Systems: Input from Focus Groups (SAE paper 920614) Warrendale, PA: Society of Automotive Engineers. (also in *SAE Transactions 1992*, 1993, *101*, 804-812.

8. Green, P., Paelke, G., and Boreczky, J. (1992). The "Potato Head" Method for Identifying Driver Preferences for Vehicle Controls, International Journal of Vehicle Design, 13(4), 352-364.

7. Green, P. (1990). Instrument Panel Displays and Ease of Use. Body Engineering Journal, 18(1), 40-41.

6. Green, P., Boreczky, J., and Kim, S. (1990). Applications of Rapid Prototyping to Control and Display Design. (SAE paper #900470, Special Publication SP-809), Warrendale, PA: Society of Automotive Engineers, (also published in *SAE Transactions 1990*, 1991, *99*, 647-668).

5. Sivak, M., Olson, P., and Green, P. (1986). Human Factors Methods in the Design of Vehicle Components, *International Journal of Vehicle Design*, *7*, 331-337.

4. Green, P. (1984). Driver Understanding of Fuel and Engine Gauges (SAE paper 840314), Warrendale, PA: Society of Automotive Engineers (see also *SAE Transactions 1984*, *93*, 1985, 566-684).

3. Green, P. (1984). Teaching a Course on Human Factors and Computer Systems, *IEEE Computer Graphics and Applications*, *4*(12), 43-45.

2. Green, P. and Pew, R.W. (1978). Evaluating Pictographic Symbols: An Automotive Application, *Human Factors*, *20*(1), 103-114.

1. Green, P. and Davis, G. (1976). The Recognition Time of Rotated Pictographic Symbols for Automobile Controls, *Journal of Safety Research*, *8*(4), 180-183.

Peer-Reviewed Conference Papers

97. Green, P., Mantooth, W., and McSweeney, K. (2025, accepted, in preparation). *Safety Issues for Wave Energy Converters (WECs)*, Houston, Texas: 2025 Mary Kay O'Connor Safety & Risk Conference

96. Duan, L., Xu, B., and Green, P. (2025). *Adding and Assessing Vehicle Sound and Steering Feedback: Application to an Unreal Engine Driving Simulator.* (SAE technical paper 2025-01-8668), Warrendale, PA: Society of Automotive Engineers.
95. Nalawade, T., Fu, S., Green, P.A. (2024). *Enhancing Interface Usability: Widget Selection Parameters, Apple and Microsoft Design Guidelines, and Research Data*, SID Vehicle Displays and Interfaces 2024, meeting of Society for Information Display Metro-Detroit chapter, Detroit Michigan.
94. Green, P. (2024). Applying the SEEV Model to Assess Where People Will Look: Practical Considerations, *Proceedings of the Human Factors and Ergonomics Society*, Phoenix, AZ, Human Factors and Ergonomics Society.
93. Green, P. (2024). *Estimating How Long In-Vehicle Tasks Take: Static Data for Distraction and Ease-of-Use Evaluations* (SAE paper 2024-01-2505), Warrendale, PA: Society of Automotive Engineers.

92. Green, P., Koca, E., and Brennan-Carey, C. (2023). *Estimates of In-Vehicle Task Element Times for Usability and Distraction Evaluations* (SAE paper 2023-01-0789), Warrendale, PA: Society of Automotive Engineers.

91. Zheng, H., Hu, F., and Green, P. (2023). *Assessing Driver Distraction: Enhancements of the ISO 26022 Lane Change Task to Make Its Difficulty Adjustable* (SAE paper 2023-01-0791), Warrendale, PA: Society of Automotive Engineers.

90. Green, P. and Mikulski, T. (2023). *A Standard Set of Courses to Assess the Quality of Driving Off-Road Combat Vehicles* (SAE paper 2023-01-0114), Warrendale, PA: Society of Automotive Engineers.

89. Koca, E., & Green, P. (2022, September). Databases for Estimating Task Element Times: An Overview. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* 1591-1595.

.
88. Green. P. (2022). *Determining the Workload of Driving Scenarios Using Ratings to Support Safety and Usability Assessments*, VEHITS Conference, 96-104.

87. Green, P. (2022). *Estimating the Workload of Driving Using Video Clips As Anchors* (No. 2022-01-0805). SAE Technical Paper. (later published in *SAE International Journal of Advances and Current Practices in Mobility*, also listed in Journal articles).

86. Wintersberger, P., van der Heiden, R., Borojeni, S. S., Gerber, M. A., & Green, P. (2019, September). First workshop on attentive and pervasive UI in automated vehicles. In *Proceedings of the 11th International Conference on Automotive User Interfaces and Interactive Vehicular Applications: Adjunct Proceedings*, 63-70.

85. Green, P. (2020). ISO Human-Computer Interaction Standards: Finding Them and What They Contain, *Proceedings of the Human Factors and Ergonomics Society,* 400-404.

84. Green, P. (2019). SAE Automotive Human Factors Standards: Finding Them and What They Contain, *Proceedings of the Human Factors and Ergonomics Society,* 582-586.

83. Liu, K. Green, P., and Liu, Y. (2019). Traffic and Ratings of Driver Workload: The Effect of the Number of Vehicles and Their Distance Headways, *Proceedings of the Human Factors and Ergonomics Society, 2134-2138.*

82. Liu, K. and Green, P. (2018). Driver Responses to Augmented Reality Warnings and Alternatives at Urban Signalized Intersections, *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society, 1924-1928.

81. Green, P. (2017). Improving the Timing of Conference Presentations Using Web Applications, *Proceedings of the Human Factors and Ergonomics Society International Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society, 532-536.

80. Liu, K. and Green, P., (2017). The Conclusion of a Driving Study About Warnings Depends on How Response Time is Defined, *Proceedings of the Human Factors and Ergonomics Society International Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society, 1876-1880.

79. Wintersburger, P., Green, P., and Riener, A. (2017, poster with paper). Am I Driving or Are You or Are We Both? A Taxonomy for Handover and Handback in Automated Driving, *Driving Assessment Conference*.

78. Lin, B.T.W. and Green, P.A. (2016). A Simple Method to Record Keystrokes on Mobile Phones and Other Devices for Usability Evaluations, *Proceedings of the 18th International Conference on Human-Computer Interaction*, Toronto, Canada.

77. Jeong, H. and Green, P. (2015). Honking Helps Overcome the Driving-Too-Slowly Problem in Driving Simulators, *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Los Angeles, California.

76. Hoehener, D., Green, P. A., & Del Vecchio, D. (2015). Stochastic Hybrid Models for Predicting the Behavior of Drivers Facing the Yellow-Light-Dilemma. American Control Conference.

75. Kun, A., Gable, T.M., Green, P.A., Reimer, B., Janssen, C., Froehlich, P., Heean, P.A., Miller, W.T., Tashev, I., and Iqbal, S. (2015). CLW 2015: The Fifth Workshop on Cognitive Load and In-Vehicle Human-Machine Interaction, *Proceedings of AutomotiveUI 2014, 6th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Loughborough, UK, September 2015.

74. Green, P., Jeong H., Kang T. (2014). Using an OpenDS Driving Simulator for Car Following: A First Attempt, *Proceedings of the 6th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Seattle, WA, USA.

73. Kun, A.L., Froehlich, P., Green, P.A., Reimer, B., Heeman, P.A., Paek, T., Miller W.T.III, Tashev, I., Iqbal, S., and Gable, T.M. (2014). CLW 2014: The Fourth Workshop on Cognitive Load and In-Vehicle Human-Machine Interaction, *Proceedings of AutomotiveUI 2014, 6th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Seattle, WA, October, 2014.

72. Green, P. (2014). Doing Better Driving Research: Suggestions from a Reviewer, *European Conference on Human Centred Design for Intelligent Transport Systems*, Vienna, Austria (June 5-6).

71. Kun, A., Reimer, B., Froehlich, P., Heeman, P.A., Miller, W.R., Green, P.A., Tashev, I., Iqbal, S., and Kern, D. (2013), CLW 2013: The Third Workshop on Cognitive Load and In-Vehicle Human-Machine Interaction), *Proceedings of the 5th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*.

70. Green, P. (2013). Standard Definitions for Driving Measures and Statistics: Overview and Status of Recommended Practice J2944, *Proceedings of the 5th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, 198-191.

69. Li, G., Wang, W., Green, P., Li, S., and Cheng, B. (2013). Effectiveness of Flashing Brake and Hazard Systems in Avoiding Rear-End Crashes, The 4th International Conference on Green Intelligent Transportation Systems and Safety. (2014??

68. Green, P. (2013). Eleven Tips to Find Course Material When Time is Limited, *Proceedings of the Human Factors and Ergonomics Society*, Santa Monica, CA: Human Factors and Ergonomics Society, 467-471.

67. Green, P., Lin, B., and Lo, E-W. (2012). Anchored Workload Ratings: A Method to Support Studies of Drivers of All Ages, International Conference on Aging, Mobility, and Quality of Life (AMQoL), Ann Arbor, Michigan.

66. Green, P. (2012, October). Using Standards to Improve the Replicability and Applicability of Driver Interface Research, *Proceedings of AutomotiveUI 2012, 4th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Portsmouth, NH. (invited plenary address).

65. Green, P. (2012, October). In-vehicle UI Standards (Tutorial T3), *Proceedings of Automotive UI 2012, 4th International Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Portsmouth, NH.

64. Kun, A.L., Reimer, B., Froehlich, P., Heeman, P.A., Paek, T., Miller W.T.III, Green, P.A., Tashev, I., Iqbal, S., Kern, D. (2012, October). W2: CLW 2012: The Second Workshop on Cognitive Load and In-Vehicle Human-Machine Interaction), *Proceedings of*

AutomotiveUI 2012, 4th International Conference on Automotive User Interfaces and Interactive Vehicular Applications, Portsmouth, NH.

63. Green, P. (2010). *Driver Distraction/Overload Research and Engineering: Problems and Solutions* (SAE paper 2010-01-2331), Convergence Conference Proceedings, Warrendale, PA: Society of Automotive Engineers.

62. Mandua, D., Serafin, C., Bezzina, D., Tsimhoni, O. and Green, P. (2008). Developing an Effective Multi-Modal, Multiple-Warning System: The Process for IVBSS, paper presented at the ITS-America 2008 meeting.

61. Green, P. (2008). Driver Interface/HMI Standards to Minimize Driver Distraction/Overload (SAE paper 2008-21-2002), *Convergence Conference Proceedings*, Warrendale, PA: Society of Automotive Engineers.

60. Green, P. (2008). Developing Complex Crash Warning Simulations for Human Factors Evaluations, *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

59. Green, P. (2007). Why Driving Performance Measures Are Sometimes Not Accurate (and Methods to Check Accuracy), *4th International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*, Iowa City, Iowa: University of Iowa (http://ppc.uiowa.edu/driving-assessment/2007/).

58. Cai, H. & Green, P. (2007). New Definition of Legibility Index to Examine Off-axis Viewing of Text and Graphics. *IESNA Annual Conference: Light Matters 2007: Integrating Light Into Our Environments*, General Lighting Topics. January 28-30, 2007. Phoenix, AZ

57. Pew, R.W. and Green, P. (2006). Almost 50 Years of the University of Michigan Human Factors Engineering Summer Conference, *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Santa Monica, CA.

56. Green, P. (2006). Driver Status and Implications for Crash Safety (SAE paper 2006-21-0028), *Convergence 2006 Conference Proceedings*, Detroit, Michigan.

55. Green, P. (2006). Methods for Assessing the Safety and Usability of In-Vehicle Systems: Lessons from UMTRI Driver Interface Research (invited plenary address), *Proceedings of the International Workshop on Safety and Comfort in Vehicles*, Kyushu University, Fukuoka, Japan, November 6-7, 2006.

54. Green, P. (2006). Parking Crashes and Parking Assistance System Design: Evidence for Crash Data Bases, The Literature, and Insurance Agent Interviews (SAE paper 2006-06AE-269), Warrendale, PA: Society of Automotive Engineers.

53. Gadgil, S. and Green, P. (2005). How Much Clearance Drivers Want While Parking: Data to Guide the Design of Parking Assistance Systems, *Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting*, Santa Monica, CA; Human Factors and Ergonomics Society (CD-ROM).

52. Green, P. (2005). How Driving Simulator Data Quality Can Be Improved, *Driving Simulation Conference North America 2005*, Orlando, Florida.

51. Cai, H. and Green, P. (2005). Character Heights for Vehicle Displays as Predicted by 22 Equations, *2005 Vehicle Display Symposium Digest of Technical Papers*, Dearborn, Michigan.

50. Green, P. and Kishi, N. (2004). Assessing the Safety of Infotainment Systems Use While Driving: Practical Lessons from InfoMan, *International Workshop on Progress and Future Direction of Adaptive Driver Assistance Research*, Washington, D.C.: U.S. Department of Transportation (www.volpe.dot.gov/opsad/saveit/workshop.html).

49. Green, P. (2004). Driver Distraction, Telematics Design, and Workload Managers: Safety Issues and Solutions (SAE paper 2004-21-0022), *Proceedings of the 2004 International Congress on Transportation Electronics (Convergence 2004*), SAE publication P-387, 165-180. Warrendale, PA: Society of Automotive Engineers.

48. Campbell, J.L., Hoffmeister, D.H., Kiefer, R.J., Selke, D.J., Green, P., and Richman, J.B. (2004). *Comprehension Testing of Active Safety Symbols* (SAE paper 2004-01-0450). Warrendale, PA: Society of Automotive Engineers.

47. Green, P., Nowakowski, C., Mayer, K., and Tsimhoni, O. (2003). Audio-Visual System Design Recommendations from Experience with the UMTRI Driving Simulator, *Proceedings of Driving Simulator Conference North America*, Dearborn, MI: Ford Motor Company.

46. Nowakowski, C., Green, P., and Tsimhoni, O. (2003). Common Automotive Navigation System Usability Problems and a Standard Test Protocol to Identify Them, Paper presented at the ITS-America 2003 Annual Meeting (CD-ROM), Washington, D.C. Intelligent Transportation Society of America.

45. Tsimhoni, O. and Green, P. (2003). Time-Sharing of a Visual In-Vehicle Task while Driving: Effects of Four Key Constructs, *Proceedings of the 2nd International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*, Park City, Utah, 113-118.

44. Nowakowski, C. Friedman, D., and Green, P. (2002). An Experimental Evaluation of Using Automotive HUDs to Reduce Driver Distraction While Answering Cell Phones, *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society, CD-ROM.

43. Green, P. (2001). Telematics panel session, Human Factors and Ergonomics Society Annual Meeting, Santa Monica, CA: Human Factors and Ergonomics Society.

42. Lai, J., Cheng, K., Green, P. and Tsimhoni, O. (2001). On the Road and on the Web: Comprehension of Synthetic and Human Speech While Driving, *CHI'2001 Conference Proceedings*, New York, N.Y.: Association for Computing Machinery.

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8. Green, P. and Burgess, W.T. (1981). *Windshield Damage and Driving Safety* (Technical Report UM-HSRI-81-35), Ann Arbor, MI: The University of Michigan Highway Safety Research Institute.

7. Green, P. (1980). *A Computer Simulation of Headlamp Variables and Drivers' Sight Distances: Operating Instructions* (Technical Report UM-HSRI-80-44), Ann Arbor, MI: The University of Michigan Highway Safety Research Institute.

6. Green, P. and Burgess, W.T. (1980). *Debugging a Symbol Set for Identifying Displays: Production and Screening Studies* (Technical Report UM-HSRI-80-64). Ann Arbor, MI: The University of Michigan Highway Safety Research Institute.

5. Green, P. (1979). *Automobile Multifunction Stalk Controls: Literature, Hardware and Human Factors Review* (Technical Report UM-HSRI-79-78). Ann Arbor, MI: The University of Michigan Highway Safety Research Institute.

4. Green, P., Kubacki, M., Olson, P.L., and Sivak, M. (1979). *Accidents and the Nighttime Conspicuity of Trucks* (Technical Report UM-HSRI-79-92), Ann Arbor, MI: The University of Michigan Highway Safety Research Institute.

3. Green, P. (1977). The Prediction of Choice Response Times for Pictographic Symbols. Department of Industrial & Operations Engineering technical report, University of Michigan. *JSAS Catalog of Selected Documents in Psychology*, August 1980, p.77 (manuscript 2102).

2. Green, P. (1975). *UM/AMP K Press Guarding Project, Field Study 2*, Department of Industrial & Operations Engineering Technical report, University of Michigan.

1. Green, P., Allen, B., Appalucci, L., and Conroy, P. (1972). *Design of a New Dashboard for the Ford Pinto—Human Factors Considerations*, Urban Vehicle Design Competition technical report, Philadelphia, PA: Drexel University.

Conference Proceedings

Green, P., Boll, S., Burnett, G., Gabbard, J., and Osswald, S. (2016). *Proceedings of the 8th International Conference on Automotive User Interfaces and Interactive Vehicular Applications* (Automotive'UI 16), (Ann Arbor, MI, USA — October 24 - 26, 2016), New York, NY: Association for Computing Machinery.

Books and Book Chapters

16. Green, P. (2025, to appear). Motor Vehicle Driver Interfaces in Jacko, J. (ed.) *Handbook of Human-Computer Interaction 5th ed.)*, Boca Raton, FL: CRC Press.

15. Green, P. (2025, to appear). Driver Eye Fixations in Masliah, M (ed.). *Human Factors in Traffic Safety*, Tucson, AZ: Lawyers and Judges Publishing.

14. Green, P (2024, in review). *UMTRI - U.S. Army Handbook of Driving Performance Measures and Statistics* (version 1.0). Ann Arbor, Michigan: University of Michigan Transportation Research Institute.

13. Green, P. (2018). Motor Vehicle Driver Interfaces (Chapter 40) in Norman, K. and Kirakowski, J. (eds.) *The Wiley Handbook of Human-Computer Interaction (4th ed.)*, Boca Raton, FL: CRC Press.

12. Green, P. (2015). Driver Eye Fixations in Smiley, A. (ed.). *Human Factors in Traffic Safety*, Tucson, AZ: Lawyers and Judges Publishing.

11. Green, P. (2012). Motor Vehicle Driver Interfaces (Chapter 32) in Jacko, J. (ed.) *Handbook of Human-Computer Interaction (3rd ed.)*, Boca Raton, FL: CRC Press.

10. Green, P. (2012). Motor Vehicle Driver Interfaces *(Chapter 58),* in Savendy, G. (ed), *Handbook of Human Factors and Ergonomics* (4th. ed.), New York, NY: Wiley

9. Green, P. (2008). Driver Interface Safety and Usability Standards: An Overview, chapter 24 in Regan, M.A., Lee, J.D., and Young, K.L., *Driver Distraction: Theory, Effects, and Mitigation*, CRC Press.

8. Green, P. (2007). Driver Eye Fixations, in Dewar, R.E. and Olson, P.L. (eds.), *Human Factors in Traffic Safety (2nd ed.)*, Tucson, AZ: Lawyers and Judges Publishing. Note: editor of 2011 book is Smiley, A.

7. Green, P. (2002). Why Safety and Human Factors/Ergonomics Standards Are So Difficult to Establish, in de Waard, D., Brookhius, K.A., and Toffetti, A. *Human Factors in Transportation, Communication, Health, and the Workplace*, Maastricht, the Netherlands: Shaker.

6. Green, P. (2001). Driver Eye Fixations (chapter 4, pp 77-110), in Dewar, R.E. and Olson, P.L. (eds.), *Human Factors in Traffic Safety*, Tucson, AZ: Lawyers and Judges Publishing. Note: editor of 2011 book is Smiley, A.

5. Waller, P.F. and Green, P. (1997). Human Factors in Transportation (chapter), in Salvendy, G. (ed.), *Human Factors and Ergonomics Handbook* (2nd ed.), New York: Wiley.

4. Green, P. (1995). Automotive Techniques (chapter), 165-208 in Weimer, J., (ed.) *Research Techniques in Human Engineering (2nd ed.)*, New York, NY: Prentice-Hall.

3. Green, P. (1993). Tools and Methods for Developing Easy to Use Driver Information Systems, 959-970 in Haug, E.J. (ed.), *Concurrent Engineering Tools and Technologies for Mechanical System Design*, Berlin, Germany: Springer-Verlag.

2. Green, P. (1993). Symbols for Controls and Displays (chapter), 237-268 in Peacock, B. and Karwowski, W. (eds.) *Automotive Ergonomics*, London, U.K.: Taylor and Francis.

1. Green, P. and Baker, D. (1987). Page Format and User Understanding of Command Language Computer Manuals. 259-265 in Mark, L.S., Warm, J.S., and Huston, R.L. (eds.), *Human Factors and Ergonomics: Recent Research*, New York: Springer-Verlag, Inc.

Other Publications

19. Maikala, R., Fox, R., Reid, C., Rempel, D, and Green, P. (2024). Ergonomics Standards Development Lifecycle and Specific Updates on Current Work: Perspectives from ISO and Affiliated Organizations (panel discussion), International Ergonomics Association Conference, August 29, 2024, Jeju, Korea

18. Green, P. (2019). Symposium proposal: The Role of Human Factors Standards in Advancing Science and Practice: Some Examples from Automotive, Nuclear, Healthcare, and Petrochemical Industries, *Proceedings of the Human Factors and Ergonomics Society*

17. Green, P., Figueroa, R., and Napoleon, A. (2014, December). Getting Your Student Chapter to the Annual Meeting: The Michigan Experience, *HFES Bulletin*, 57(12).

16. Akamatsu, M., Green, P., and Bengler, K. (2013). Editorial: Advances of Human Factors Research for Future Vehicular Technology, *International Journal of Vehicular Technology.*

15. Green, P. (1996). Driver Interfaces for Vehicles of the Future, *Inside Automotive*, November/December, *3*(6), 33-36.

14. Green, P. (1996). What We Need to Learn to Build Usable Driver Information Systems for Future Vehicles, *OSAT's Focus on the Future*, Fall, p 6-7, Ann Arbor, MI, The University of Michigan Transportation Research Institute.

13. Sweet, R.E. and Green, P. (1993). UMTRI's Instrumented Car, *UMTRI Research Review*, January-February, 1-11.

12. MacAdam, C.C., Green, P.A., and Reed, M.P. (1993). An Overview of Current UMTRI Driving Simulators, *UMTRI Research Review*, July-August, *24*(1), 1-8.

11. Green, P. (1990). Readings on Human Factors in Computer Systems: The 1989 List. *SIGCHI Bulletin*, *21*(4), 20-26.

10. Green, P. (1989). Instrument Panel Displays and Ease of Use. *UMTRI Research Review*, *19*, 1-14.

9. Boreczky, J. and Green, P. (1989). Review of MicroSaint Simulation Software. *Human Factors Society Bulletin*, *32*(11), 9-11.

8. Green, P. (1987). Tips on Writing a Good Paper Proposal. *Human Factors Society Computer Systems Technical Group Newsletter*, 14(2), 6-10 (also reprinted in the *Human Factors Society Consumer Products Newsletter*, October 1987, *12*(3), 3-6).

7. Green, P. (1987). Readings on Human Factors in Computer Systems. *ACM SIGCHI Bulletin*, *19*(2), 15-20.

6. Green, P. (1986). Review Process for Proposals. *Human Factors Society Computer Systems Technical Group Newsletter*, *13*(1), 6-14.

5. Green, P. (1982). The Gaithersburg Meeting (and Beyond). *Human Factors Society Bulletin*, 25(5), 1-2.

4. Green, P. (1981). Displays for Automotive Instrument Panels: Production and Rating of Symbols. *HSRI Research Review*, *12*(1), 1-12.

3. Green, P. (1979). What Do We Do? *Human Factors Society Bulletin*, *23*(5), 2.

2. Green, P. and Olson, P.L. (1979). Eye Fixations of Drivers in Response to Various Retroreflective Treatments of a Semitrailer. *HSRI Research Review*, *10*(3), 19-24.

1. Green, P. (1979). Rational Ways to Increase Pictographic Symbol Discriminability. Unpublished Ph.D. dissertation, Department of Industrial & Operations Engineering and Department of Psychology, University of Michigan, *Dissertation Abstracts International* (University Microfilms No. 79-25, 156).

YOUTUBE VIDEOS

Green, P. (2024). Paul A. Green Accepts Arnold M. Small and Betty M. Sanders President's Distinguished Service Award (https://www.youtube.com/watch?v=d0qs7A86GFw)

Green, P. (2019). Human Factors and Automotive Standards: YouTube Series Overview (https://www.youtube.com/watch?v=uEldEsm4y7c)

Green, P. (2019). Automotive Human Factors Standards and Related Topics https://www.youtube.com/watch?v=VO7tthZE7v4&t=1s (3 videos)

Green, P. (2019). Human-Computer Interaction Standards and Guidelines https://www.youtube.com/watch?v=eRKcUWcU3pY

Green, P. (2019). Human Factors / Ergonomics Standards https://www.youtube.com/watch?v=SKU2f7mwXxs&t=59s

Green, P. (2019). Core and Newer SAE Vehicle Standards
https://www.youtube.com/watch?v=RGJ75Yf99ls

also several short videos for the Human Factors Engineering Short Course
(main course video has 10,000 views; displays video has 5,800 views)

POSTERS

Green, P. (2024). *How Should We Describe How Well People Drive? The UMTRI – U.S. Army Handbook of Driving Performance Definitions and Statistics,* Human Factors and Ergonomics Society Annual Meeting, Phoenix, AZ.

Green, P. (2023). *Driving Performance Measures and Statistics: Definitions and Data*, Automotive Research Center (ARC) Annual Meeting, Ann Arbor, Michigan.

Green, P. (2023). *Creating a Simulation to Teach People About a Medical Device: An LAVD As an Example (Work in Progress)*, Human Factors and Ergonomics Society Annual Meeting, Washington D.C.

Green, P. (2022). *Development of a Standard for Driving Performance Measures and Statistics*, Automotive Research Center (ARC) Annual Meeting, Ann Arbor, Michigan.

Green, P. (2022). *Effect of the Commander's Interface, Crew Size, and Task Switching on Formation Change and Mission Performance*, Automotive Research Center (ARC) Annual Meeting, Ann Arbor, Michigan.

Green, P. (2022). *Estimating the Visual Demand of Driving*, Automotive Research Center (ARC) Annual Meeting, Ann Arbor, Michigan.

Green, P. (2022). *Proposals to Support for the Citation of Standards in HFES Publications,* Human Factors and Ergonomics Society Annual Meeting, Atlanta, CA, October 25.

Nakisher, E. and Green, P. (2022). *Assessing Human Use of Partially-Automated Motor Vehicles: A Subjective Method for Use by Human Factors Experts*, Human Factors and Ergonomics Society Annual Meeting, Atlanta, CA, October

Meddings, J., Ameling, J., and Green, P. (2020). Displaying Medical Information in Hospital Rooms: Best Practices from Human Factors Engineering and Application to Developing a Patient Safety Display (poster presentation), *Society of Hospital Medicine Annual Conference*, San Diego, CA, 04/16/2020

Green, P. (2021). Assessing the Quality of Driving of Off-Road Vehicles: Test Courses for the U.S. Army, Human Factors and Ergonomics Society Annual Meeting.

Green, P. (2020). *Armored Vehicle Baseline Driving (AV-BADR) Tasks*, Automotive Research Center (ARC) Annual Meeting.

Green, P. (2019). *Should HFES Publications Be Required to Cite Standards?* Human Factors and Ergonomics Society Annual Meeting.

Green, P. (2018). *Why You Should Know About Standards,* Human Factors and Ergonomics Society Annual Meeting.

Green, P. (2017). *Things I Have Done You Could Find Interesting*, Human Factors and Ergonomics Society Annual Meeting.

OTHER

Maikala, R., Fox, R. Reid, C., Rempel, D., Green, P., and Fukuzumi, S., (2024). *IEA presentation Ergonomics Standards Development Lifecycle and Specific Updates on Current Work: Perspectives from ISO and Affiliated Organizations* (Panel discussion), 22nd Triennial Congress of the International Ergonomics Association, August 22-25, Korea.

Green, P. (2023). *Assessing the Quality of Driving On and Off-Road Vehicles: Measures and Statistics of Driving Performance* (presentation), Automotive Research Center (ARC) Annual Meeting, Ann Arbor, Michigan, May 10.

Green, P. (2022). *Assessing the Quality of Driving On and Off-Road Vehicles: Measures and Statistics of Driving Performance* (presentation), Automotive Research Center (ARC) Annual Meeting, Ann Arbor, Michigan, June 22.

Green, P. (2017). Human Factors and Automated Vehicles: What We Need to Know, Automotive Cockpit HMI USA 2017, Ann Arbor, MI, April 11, 2017.

Green, P. (2017). Workshop: What is the Process for Testing the Safety and Usability of an Automated Driving System HMI: Level 2 as a Case Study, *CAR HMI USA 2017 – UX Redefined*, Detroit, MI, April 24-25, 2017.

Green, P. (2016). Low-Cost HMI Evaluation Methods to Assess Distraction and Workload (presentation), *Automotive Cockpit HMI USA 2016*, April 19, 2016, Detroit, Michigan, USA.

Green, P. (2016). HMI Evaluation Methods Workshop (presentation), *Automotive Cockpit HMI USA 2016,* April 21, 2015, Detroit, Michigan, USA.

Green, P. (2016). Engineering Driver Interfaces to Minimize Distraction and Support Automation and New Technology, *Car HMI USA 2016 – UX Refined*, April 25, 2016, Detroit, Michigan, USA.

Green, P. (2015). Driver Interface Research on Augmented Reality HUDS at Michigan, panel session – HUD and Augmented Reality: It is OK for Automotive? Society for Information Display (SID) Vehicle Displays 2015, Dearborn, MI, October 22, 2015.

Green, P. (2015). SAE Standards Related to Driving (and Other Topics) in Human Factors and Ergonomic Standards: An Overview, panel session at *Human Factors and Ergonomics Society International Annual Meeting*, October 29, 2015, Los Angeles, California.

Green, P. (2015). Low-Cost HMI Evaluation Methods to Assess Distraction and Workload, *Automotive Cockpit HMI USA*, May, 2015, Detroit, Michigan. (lecture & workshop)

Green, P. (2014). Low-Cost HMI Evaluation Methods to Assess Distraction and Workload, *Automotive Cockpit HMI USA*, April 28,2014, Detroit, Michigan.

Green, P. (2014). Safety and Human Factors Standards for Driving, Workshop on Human Factors in Vehicles (HFIV-14), *IEEE Conference on Intelligent Transportation Systems,* June 8, 2014, Dearborn, Michigan.

Green, P. (2013). Driving Performance Measurement (SAE Recommended Practice J2944 Operational Definitions of Driving Performance Measures and Statistics), panel session at: Vehicle Display Symposium 2013 (20th Annual Symposium on Vehicle Displays), Dearborn, MI.

PATENTS

Provisional Patent attorney docket 2114-006438-US-PS1 (lapsed)
Augmented Reality Presentation of Crash Avoidance Warnings

RESEARCH FUNDING

Provide a numbered list of contracts, grant, or project titles in reverse chronological order, including the grant, contract, or project title as appropriate, the year/years covered, the total funding level, and your role. Keep it simple and **don't** give a description about the contract, project, etc.

- If you are the for **overall "Principal Investigator" a contract/grant that has multiple investigators and possibly multiple subaccounts/projects** (i.e., you are the faculty person who's name is listed with the contract/grant at the U-M), **list the total amount of the contract/grant**, the year or years covered (in parenthesis**), and your role as "Principal Investigator."** If you list yourself here, don't list any projects or tasks that fall under the contract/grant even if you are the PI of those projects and they have a separate subaccount.
- If you are the **lead researcher for a project or task that is part of a larger contract/grant and you are not the overall contract/grant PI, list the title of your project/task,** the funding for your project/task, the years covered in parentheses, and your role as **"Principal Investigator."** You should do this even if there is not a subaccount for this project or task to take credit for your PI role but, in the future, **it is important to set up subaccounts for separate parts of a larger contract grant to both keep track of the funding allocated to that project/task as well as to give the PI credit for leading the research effort.**

- If **you are contributing significantly to a contract/grant**, or to one or more projects/tasks of a contract/grant that have specific and identifiable goals and separate budgets, **but you are not the primary faculty leader of the contract, grant, project, or task**, list the title of the contract, grant, project, or task as appropriate, the total dollar amount allocated to that contract/project, etc., the year/years covered in parentheses, and your role as **"co- Principal Investigator."**

omitted

TEACHING/MENTORING

Dissertation Committees

10. Ke Liu, Industrial and Operations Engineering (Yili Liu co-chair, also Nadine Sarter, Jessie Yang, Richard Gonzalez (finished 2019))

9. Ei-Wen Lo, Environment Health, Co-chair (with Al Franzblau) (2009-2013)

8. Zeljko Medenica, U. of New Hampshire, Electrical & Computer Engineering, committee member (2012-2013)

7. Lindgren, Anders, Chalmers University, Computer Science, opponent (2009)

6. Hongyi Cai, Architecture, committee/"ghost chair" (2005?-2007)

5. Kangwon "Wayne" Lee, Mechanical engineering, member (2002?-2004)

4. Omer Tsimhoni, Industrial and Operations Engineering, Co-chair (2000-2004)

3. Gary Burnett, University of Loughborough, Human Factors, opponent (1998)

2. Aaron Steinfeld, Industrial and Operations Engineering**,** committee member/"ghost chair"(1997?-1999)

1. Stanley Driskell, Urban Technology and Environmental Planning, committee member (?-1994)

Independent Study/UROP/SROP/TA/grader/MDP Supervision/staff

Galen Mui – summer volunteer
Andreas Andrade Shahinyan – summer volunteer
Abigail Taizar – summer volunteer
Wu, Judith – summer volunteer
Sooah Park – MDP & summer volunteer
Luya Zhang - MDP
Cj Ma - MDP
Jared Xin - MDP
Chris Chen – MDP and summer volunteer
Richard Huang - MDP

Kate Mitani - MDP
Qizi Yu - MDP
Long Nguyen - MDP
Ashley Tasmaan - MDP
Tyme Kumthampinij - MDP
Ian Yew - MDP
Luka Stimec - MDP
Ethan Chen - MDP
Selay Erturk - MDP
Rachel Miller - MDP
Taiki Kobayashi - MDP
Emma Capderou – UROP
William Chen – Ind study & summer volunteer
Shiyu Fu - Ind Study, research assistant
Brodey Miller - Ind Study, research assistant
Humnah Wasi
Emmanuel Nazario - SROP
Hasan Zengin -Ind study
Qayf Rasul – Ind study
Amy Jun – Ind study
Pablo Segovia - MDP
Brian Liu - MDP
Nicholas Mathew - MDP
Adarsh Bharathwaj - MDP
Grace Liu - MDP
Yifei Peng - MDP
Angelica Wang - MDP
Charlene Yee - MDP
Geon Kim - MDP
Jason Shi - MDP
Boyu Xu - MDP
Lingbo Duan - MDP
Xixiao Pan - MDP
Toland Corum - MDP
Chao Tang - volunteer
Jin Pan – volunteer
Davin Hoffman, volunteer
Yichen Hong - SURE
Mateo Jimenez – UROP
Martin Steir - UROP
Jane Ablove – UROP
Hannah Baez – 436 grader
Ishaan Arya – MDP
Kevin Zhang – MDP
Yolanda Zhou – MPD
Junru Du – MDP
Yueqi Wu – MDP
Vincent Nguyen – MDP

Aditi Locula – MDP
Andy Yang – MDP
Dann Jiang – MDP
Howard Yang – MDP
Aarnav Unadkat – MDP
Jack Raniere-volunteer
Che Chen – MDP
Ries Cheung – MDP
Fengyuan Hu – MDP
Ashley Jalluri - MDP
Ashley Jeong - MDP
Kristina Man - MDP
Jay Hemantkumar Shah - MDP
Jaehyun Shim - MDP
Hanxi Wan - MDP
Hongxiao Zheng - MDP
Janice Liu 334 GSI
Max Ford - 334 grader
Emily Nakisher – 334 grader, research volunteer, employee
Shivam Patel - volunteer
Jack Liu - MDP
Louis Wang - MDP
Jihong Hu - MDP
Taylor Splingaire - MDP
Abdulhadi Alkayyali - MDP
Yuhong Chen -MDP
Qifan Wu (Ivan)
Sohavni Singh - MDP
Bennet Tierney - MDP
Jeff Brill - MDP
Kaiyang Yu – MDP
Rajas Gupta - MDP
Maggie Chen –MDP
Alyssa Blair – MDP
Zikun Wang – MDP
Kaiyand Yu – MDP
Shivam Patel – MRADS
Emma Nigrelli
Zackary Phillips
Sean Anderson -
Vedant Kanyaboiena - volunteer
Sumaiya Ferdawsi - MDP
Conleth Stead - MDP
Zhiyang Chen - MDP
Austin Liu – MDP
Andrew Forche – MDP
Eric Landgraf – UROP & MDP
Shixin Song – MDP

Shiji Liu – volunteer
Janki Patel - volunteer
Grant Barry -volunteer
Zackary Harkness -volunteer
Balaji Ramanarayanan
Yuan Wu
Alexandria Spofford – grad
Yuan Wu – grad
Weixin Feng - MDP
Yifei He (Rafael)
Chris Colon
Raeed Rasul
Yi (Mia) Wu
Ziyang (Jeff) Chen
Edward Peper - MDP
Brandon Sapp
Jihyeong (Julie) Ko
Nihar Joshi
Anyatama (Rymee) Makur
Chenyang (Danny) Ma
Jacob Gozon
Henry Beckstein
James Wu
Zhiyang Chen - MDP
Austin Liu – MDP
Andrew Forche – MDP
Jihyeong (Julie) Ko – MDP
Eric Landgraf – UROP & MDP
Shixin Song – MDP
Shiji Liu – volunteer
Grant Barry -volunteer
Zackary Harkness -volunteer
Jingnan (Sophie) Zheng – MDP
Yuan Wu – grad
Weixin Feng – MDP
Weizhour Zhang
Dianne Tian
Janice Lau
Tristan Collard
Karen Lin
Collin Brennan-Carey
Carol Zhang
Sarah (Haewon) Lee
Yajing Zaao
Ekim Koca
Sergio Hernandez
Pablo Padilla
Haoyang Li

Meng Shi
Julia Savoka
Kevin Duan
Zeke Majeske
Anthony Nassar
Jordan Li
Ruizhe (Alice) Huang
Mike Rakowiecki
Shuqi Min
Peifu Mo
Deanna Shih
Hsi-Fan Liao
Katherine Corbett
Justin Rogers
Grason Cheydleur
Tali Gorokhovsky
Beijia Wang
Daniel George
Bowen Tan
Jonathan Jan
Yuxiao Xu
Yuanhan Luo
Raissa Barros de Carvalho
Ben Pan
Ray Pressly
Sabrina Cottrell
Reynerio Sanchez
Kevin Li
Matt Setsuda
David Taylor
Grason Cheydleur
Clara Zhang
Chris Loechli
Ryan Tedd
Xiaofeng Lui
Jonathan Mountford
Aaron Zhou
Ke Liu
Dylan Waldman
Atshat Gattani
Cooper Wang
Sakinah Echols
Javier Taylor
Ei-Wen Lo
Sarah Miller
Kelly Comastro
Andrew Schanne
Tessa Elwart

Yuhao Gu
Jacob Durrah
Guofa Li
Heejin Jeong
Alex Bauman
Jamie Sookprasong
Samuel Pettinato
Andrea Best
Davis Lau
Anthony Mize
Je Sin (Jason) Kim
Helinda Ho
Matthew Alter
Adrienne Llanes
Hassan Hamid
Jin Seop Park
Jason Schweitzer
Anna Weiss
Katherine Stone
Michael Syty
Danielle Martinak
Benjamin Worrel
Edmur Pugliesi
Brian Lin
Te-Ping Kang
Samuel Jih
Christopher Demeniuk
Ashley Logan
Sean Michael Walls
Jessica Oberholtzer
Erin Baragar
Norman Chao
Takahiro Wada
Adriana Baron
Baylee Millier
Ed Hegedus
Serge Yee
Hong Jun Eoh
Lan Nguyen
Julia Angstrom Diebold
Sujata Gadgil
Rachel Rubin
John Amann
Brian Cullinane
Omer Tsimhoni
Brad Zylstra
Dan Smith
Ken Mayer

Christopher Nowakowski
Dana Friedman
John Lenneman
Aaron Brooks
Herbert Yoo
Alan Olson
Raina Shah
Sundaravalli Priya Sudarsan
Aaron Steinfeld
Stew Katz
Jill Flemming Hewitt
Brian Poggioli
Dan Manes
Dave Hunter
Dan Damouth
Charmian Li
Edgar Manalo
Amitaabh Malhotra
Taryn Israel
Sokha Chau
Tammy Rice
Liz Fuller
Sara (Naylor) Cramton
Minoru Sumie
Patrick Wei
Tandi Bagian
Hideki Hada
Colleen Serafin
Kellie George
Brian Davis
Eileen Hoekstra
Marie Williams
Gretchen Paekle-Zobel
Sylvia Kim
Cathy Wen
Bernice Lin
John Boreczky
Paula Finnegan
Steve Goldstein
Kim Clack
Julie Eberhard
Kara Heinrichs
Henry Kim
Todd Bos
Cam Beattie
Jim Sayer
Sue Adams
Kris Zeltner

Pach Ratanaproeksa
Joshua Kerst
Mike Schiller
Barb Glover
Mark Glaza
Chris Turner
Don Ottens
Herb Wesselman
Lisa Wei-Hass
David Miller
Stacy Reifeis
Russell Levine
Bill Burgess

Other Student Mentoring

Ke Liu
Ali Aljaroudi
Ray Pressly
Ben Pan
Jo Deng
Ezra Chung
Jonathan Mountford
Tyan Tedd
Xiaofeng Liu
Christopher Loechli
Dylan Waldman
Nicole Harvard
Jackie Reno
Tanesha Landesma
Edgar Kinnebrew
Wang Hao (Derick) Wang
Helinda Ho
Jennifer Wong
Jean Pharoan
Damita Burton
Unsure of many before about 2007, approximately1-2/year

Classroom Teaching

I have taught a class every regular semester since 1980 (except for the fall of 2023).
Most importantly, I have led and helped teach the Human Factors Engineering Short Course every summer since about 1975 or 1976. This is year **65** of the course. It is the flagship continuing education course in the profession, attracting about 65 people each year.

2024	School of Information 311-044, Human Factors and UX
2020-2022?	Industrial and Operations Engineering 334 (Ergonomics Laboratory) fall and winter semesters, 1 credit, 6 sections

2007	School of Information 860, 3 credits, Research Methods
2006-2022	Industrial and Operations Engineering 491 (now IOE 437) (Automotive Human Factors), 3 credits
1998	professional collaborator/lecture, Iowa State University, ME/IE52X, Human Factors and Driving Simulation
1992	lecturer, ME 599, Vehicle Dynamics and Human Factors
1990-1994	lecturer, Intelligent Vehicle Highway Systems Short Course
1984	Art 391 (Industrial Design), fall semester, 3 credits
1983-**present**	Industrial and Operations Engineering 436 (Human Factors in Computer Systems), originally listed as IOE 491, winter semesters, 3 credits
1980-1982	Industrial and Operations Engineering 433 (Human Performance) winter semesters, 3 credits
1974-present	Human Factors Engineering Short Course (leader since 200x?) 8 credits (continuing education)
1979-2005	Industrial and Operations Engineering 334 (Ergonomics Laboratory) fall and winter semesters, 1 credit, 2 sections
1978, 1980	Psychology 560 (Human Performance and Technology) winter semester, 3 credits

SERVICE

Within UMTRI/U-M

UMTRI Strategic Planning Committee (2019-2022)
UMTRI Staff Development Committee (2017?-)
UMTRI Promotions and Appointments Committee (2017?-)
UMTRI Bylaws Committee (2016-2017, 2024 -)
UMTRI Driving Simulator Committee (2012-)
UMTRI Safety Committee (1996-?)
UMTRI Public Relations Committee (1986-1989)
UMTRI Fellowship Committee (1982-1990)
University of Michigan International Volleyball Club, faculty advisor, (1980-1993)
Engineering College Committee on Computers & Video (1990-1992)
Michigan Sailing Club, instructor (1992-present)

External to UMTRI/U-M

Technical Committees/Journals

Human Factors and Ergonomics Society (Fellow)
President (2008-2009)
Member, Policy and Planning Committee, (2023-)
Chair, Standards Task Force (2019?-2023)
Member, Executive Council (2010-)
Member, Meetings Committee (2018-)
Member, Executive Committee (2011-2012)
Past President (2009-2010)
President-elect (2007-2008)
Chair, Policy and Planning Committee (2007-2008)
Member, Nominations and Elections Committee (2007-2008)
Chair, Publications Committee (2005-2007)
Faculty advisor, University of Michigan student chapter (2000?-)
Secretary-Treasurer (2002-2005)
Member of Executive Council (2002-2005) and Executive Committee
Member, Nominations and Elections Committee (2002-2003)
International Standards Organization
Technical Committee 22, Subcommittee 13 (Ergonomics of Road Vehicles)
Working Group 5 (Symbols) - former chair
member, Working Group 8 (TICS) (1995?-2005?)
Board of Certification in Professional Ergonomics
Member of Board of Directors (2011-)
ITS America
Safety and Human Factors Steering Committee (19xx-?)
Driver Focus Task Force (1995?-2005?)
Society of Automotive Engineers
Member, Safety and Human Factors Steering Committee (1979-present)
Member, SAE Committee on Standards in the Classroom
Leader, SAE J2944 Subcommittee (2006?-)
SAE J2364/J2365/J2678 subcommittee/Navigation Subcommittee
ISO 15007 review committee
Many other SAE subcommittees
American National Standards Institute
Member, Committee on Education
Member ANSI Z15.3 committee

Organizer/Chair of Conferences, Technical Sessions, etc. (list role, years, and name of conference/session)

Many, most notable is chair of Automotive User Interface Conference (2016)

Peer-Reviewed Journals (List your role, journal name, and years served)
Reviewer, *Human Factors* (1981?-)
Reviewer, *Applied Ergonomics* (1981?-)
Reviewer, *Ergonomics* (1981?-)

Special issue editor, *International Journal of Vehicular Technology* (2012-2013)
Reviewer, many other journals
Editorial Board, *Transportation Human Factors Journal* (?)

Contract/Grant Reviewer

None that I remember, but I did something for NSF in the past and in 2014 reviewed proposals for the NSF BIC:PFI program. I also reviewed proposals for the NSF CPS program.

PEER-REVIEWED PRESENTATIONS

List in reverse chronological order presentations for which you submitted an abstract that required a decision by a conference or program chair or committee to accept or reject your presentation. Give title of presentation, name of conference/technical meeting, location, and date of presentation.

INVITED LECTURES AND PRESENTATIONS

There have been many. Those that I remember follow:
Abstract required (and invited)

2023 *Getting human factors research into practice: The role of quantification, models, and standards (with a transportation emphasis),* Human Factors and Ergonomics Society Titans Symposium (virtual).

2014 *Content and Status of SAE Recommended Practice J2944 Operational Definitions of Driver Performance Measures and Statistics*, New Developments in Standards for Assessing Driver Performance and Workload, panel session, Human Factors and Ergonomics Society International Annual Meeting.

2014 *Safety and Human Factors Standards for Driving*, Workshop on Human Factors In Vehicles (HFIV-14), IEEE Transactions on Intelligent Transportation Systems. Dearborn, Michigan

2012 *invited plenary speaker*, AutoUI conference, Durham, New Hampshire

2011 *Driver Workload and Making the Case for Safety in Driving and Other Domains*, Association of Canadian Ergonomists, invited speaker, London, Ontario, Canada

2009 *Driver Distraction*, Testimony, Michigan House of Representatives, Transportation Committee, Lansing, Michigan.

2008 *Technology Solutions to Driver Distraction/Overload*, National Safety Council Symposium on Distracted Driving, Arlington, VA.

2007 *Human Factors Testing*, Presentation at ITS America 2007 Annual Meeting and Exposition, Palm Springs, CA

2003 *Why Safety Matters: Implications for Design & Testing*, Panel session: The Next Revolution: Vehicle User-Interfaces and the Global Rider/Driver Experience, Association for Computing Machinery (AMC) SIGCHI Conference, Ft Lauderdale, Florida.

2002 *Future Driver Interfaces and the Special Safety Concerns of Telematics*, 2002 Traffic Safety Summit (Annual) Workshop, Lansing, Michigan.

Invited but without abstract (just a bullet list of topics to cover or an email request)

No abstract required (just invited0

2020 *Measuring and Computing Distraction and Ease of Use*, CAR HMI USA – UX Redefined Conference, Detroit, Michigan (Virtual).

2019 *Developing an HMI for an L2/L3 Partially Automated Vehicle*, Michigan Automotive and Mobility UX Meetup.

2018 *Professional Development: It is more than just journal articles*, Michigan Research Community Seminar, University of Michigan, Ann Arbor, Michigan.

2018 *Psychology-Based Engineering Models in HMI Design and Evaluation*, Automotive IQ's HMI USA 2018, Ann Arbor, Michigan

2018 *What Makes for a Good User Interface?* CAR HMI - UX Redefined. Detroit, Michigan

2017 *Human Factors and Motor Vehicles*, Michigan Research Community Seminar, University of Michigan, Ann Arbor, Michigan

2017 *Human Factors and Automated Vehicles: What We Need to Know*, Automotive Cockpit HMI USA 2017, Ann Arbor, Michigan

2017 *HMI Design and Evaluation Issues for Automated Vehicles and Computational Engineering Solutions*, Autonomous Vehicle Interior Design & Technology Symposium 2017, Novi, Michigan

2016 *Human factors, motor vehicles (and doing well at Michigan),* Undergraduate Research Opportunity Seminar, University of Michigan, Ann Arbor, Michigan

2016 *Status of SAE J2944, Driving Performance Definitions, as of January 2016,* presentation at AND30 Committee Meeting (Simulation and Measurement of Vehicle and Operator Performance) Transportation Research Board, Washington, DC

2016 *HMI for Autonomous Driving: Needs and Issues*, panel session: Automotive Displays &

HMI Evolution towards Autonomous Systems, SID Vehicle Displays Detroit, 23rd Annual Symposium and Expo, Society for Information Display, Livonia, MI

2016 *Human Factors and Motor Vehicles*, Michigan Research Consortium, University of Michigan, Ann Arbor, Michigan.

2016 *Engineering Driver Interfaces to Minimize Distraction and Support Automation and New Technology*, Car HMI USA 2016 – UX Refined, Detroit, Michigan

2015 *Describing How People and Automation Drive: The SAE J2944 Perspective*, Automated Vehicles Symposium 2015,Ypsilanti, Michigan

2015 *Driver Interface Research on Augmented Reality HUDs at Michigan*, Panel debate: HUD & Augmented Reality: Is it OK for Automotive? SID Vehicle Displays 2015, Dearborn, MI

2015 *HMI Evaluation Methods Workshop*, Automotive Cockpit HMI USA 2015, Detroit, Michigan

2015 *Low-Cost HMI Evaluation Methods, to Assess Distraction and Workload*, Automotive Cockpit HMI USA 2015,Detroit, Michigan

2014 *Low-Cost HMI Evaluation Methods to Assess Distraction and Workload*, Automotive Cockpit HMI USA 2014,Detroit, Michigan.

2014 *Society of Automotive Engineers Recommended Practice J2944: Operational Definitions for Driving Measures and Statistics*, Transportation Research Board (TRB) Annual Meeting session 789 (Standardization of Measurement of Driving Performance), presentation P14-5062), Washington, DC.

2013 *Formal Design of Semi-autonomous Cyber-Physical Transportation Systems: Research at the University of Michigan*, NSF Cyber-Physical Systems Principal Investigators Meeting, Crystal City, VA

2013 *What We Can Measure About Driving: The Development of Standard Terms for Measuring Driving Performance*, University of Toronto, Toronto, Canada

2013 *Driving Performance Measurement (SAE Recommended Practice J2944 Operational Definitions of Driving Performance Measures and Statistics),* New Developments in ISO/SAE Standards Related to Human Factors in Displays, Vehicle Display Symposium 2013(20th Annual Symposium on Vehicle Displays), Dearborn, MI

2013 *Human Factors Engineering: An Overview (with Hints about Application to Patient Safety*, Institute for Healthcare Improvement, Ann Arbor, Michigan.

2011 *Driver Distraction and Overload: Been There, Done That, and What is Next*, Focus on the Future Automotive Research Conferences, University of Michigan, Ann Arbor, Michigan.

2009 *Estimating Driver Workload: Findings from SAVE-IT*, Nissan Research Center, Yokohama. Japan

2006 *Distraction, Overload, Workload Managers and In-Vehicle Gadgets*, Wards Auto Interiors Conference, Session SF1,In-Car Gadgetry: Empowerment or Endangerment,, Cobo Hall, Detroit, Michigan

2009 *Human Factors Engineering (Its' Importance) and Engineering in General* (How to Be Great), Virginia Tech, Blacksburg, Virginia

2009 *Human Factors Engineering: Why It Matters and Some Relevant Recent Research on Driver Distraction*, University of New Hampshire, Durham, New Hampshire.

2009 *Driver Workload (and Some Thoughts about Why Human Factors Engineering Really matters),* Chalmers/University of Gothenburg, Gothenburg, Sweden.

2009 *Development of a Scenario Generator for the UMTRI Driving Simulator*, VTI, Linkoping, Sweden.

2009 *Recent Driver Interface Research at UMTRI,* Hyundai Mobis, Research Center, Giheung-gu,Yongin-shi, Gyunggi-do, Korea.

2009 *Traffic Signal Violation Warnings: Literature Review, Driver Interface Development, 2009 and Initial Driving Simulator Evaluation,* Nissan Research Center, Yokohoma, Japan.

2008 *Automotive Human Factors Research*, Undergraduate Research Forum, University of Michigan, Ann Arbor, Michigan.

2006 *How to Measure Driver Performance*, California PATH Workshop, Richmond, CA.

2006 *Distracted Drivers and Workload Managers*, California PATH Workshop, Richmond, CA.

2006 *Driver Distraction: What is the Problem and How can it be Solved?* World Usability Day for USA -Michigan Conference, Michigan State University, Lansing, Michigan.

2004 *Selection of Variables*, Simulator Users Group (SUG) meeting, Session on Behavioral Simulator Fidelity, TRB Annual Meeting, Washington, D.C.

2001 *Telematics: Promise, Potential, and Risks* (panel session presentation), Management Briefing (Traverse City Conference), Traverse City, Michigan

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