Shubham Agrawal

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Education

- Ph.D., Civil Engineering (Transportation), Purdue University — 2020
- M.S., Civil Engineering (Transportation), Purdue University — 2015
- B.Tech., Civil Engineering, Indian Institute of Technology (IIT) Bombay — 2012

Appointments and Positions

- Assistant Professor, Department of Psychology, Clemson University — 2022 – present
- Adjunct Assistant Professor, Glenn Department of Civil Engineering, Clemson University — 2024 – present
- Institute Associate, Human Factors Institute, Clemson University — 2022 – present
- Affiliate Faculty, AI Research Institute for Science and Engineering, Clemson University — 2022 – present
- Committee Member, Transportation Research Board (TRB) Standing Committee on Human Factors of Vehicles (ACH30) — 2025
- Postdoctoral Fellow on NSF grant (#2041215), Department of Sociology, Anthropology, and Criminal Justice, Clemson University — 2021 – 2022
- Graduate Research Assistant, Lyles School of Civil Engineering, Purdue University — 2012 – 2020

Publications

[G] Graduate student mentee
[U] Undergraduate student mentee
* Corresponding author (when not the first author)

Journal Articles (Peer-reviewed)

1. Souders, D. J., & **Agrawal, S.** (accepted). Translating parenting styles to driver monitoring: The development and validation of the Driver Monitoring System-User Experience (DMS-UX) scale. *Transportation Research Part F: Traffic Psychology and Behaviour*.

2. Schuster, A. M., Cooper, K. **[G]**, **Agrawal, S.**, & Cotten, S. R. (2026). Examining the relationship between online self-efficacy and daily internet use for older adults. *Psychology & Aging*. https://doi.org/10.1037/pag0001029
3. **Agrawal, S.**, Van Fossen, J. A., Schuster, A. M., Mack, E. A., Cotten, S. R., & Chang, C.-H. (2026). Professional drivers' perceptions of automated vehicles and willingness to train for AV integration: A latent profile analysis. *Transportation Research Part A: Policy and Practice*. https://doi.org/10.1016/j.tra.2026.105131
4. Nguyen, P. **[G]**, Watson, G. P., Barnes, D. **[G]**, **Agrawal, S.**, Schuster, A. M., & Cotten, S. R. (2026). Navigating workplace AI adoption: The influence of perceptions and affective attitudes on employees' intentions to use AI at work. *Journal of Management & Organization*, *32*(4), 1018-1043. https://doi.org/10.1017/jmo.2026.10090
5. Schuster, A. M., **Agrawal, S.**, Watson, G. P., & Cotten, S. R. (2026). Online survey researchers' experience with fraudulent responders. *Sage Open, 16*(1). https://doi.org/10.1177/21582440261424005
6. Li, X., Zou, J., **Agrawal, S.**, Guo, Y., Tang, T., & Feng, X. (2026). Role of policy and consumer attitudes in people's intention to use high-level autonomous vehicles: A comparative study in China and the United States. *Transportation*, *53*(2), 603-650. https://doi.org/10.1007/s11116-024-10508-2
7. Britt, N. **[G]**, Schuster, A. M., **Agrawal, S.**, Chang, C.-H., Van Fossen, J. A., Mack, E. A., & Cotten, S. R. (2025). Truck drivers and autonomous trucks: A topic modeling analysis of truck driver posts. *Transportation Research Interdisciplinary Perspectives*, *34*, 101765. https://doi.org/10.1016/j.trip.2025.101765
8. Souders, D. J., **Agrawal, S.**, Benedyk, I., Guo, Y., Li, Y., & Peeta, S. (2025). Inflating system expectations prior to SAE level 3 automated vehicle use: Effects on monitoring behavior, resumption of control, and attitudes toward driving automation. *Transportation Research Interdisciplinary Perspectives*, *34*, 101725. https://doi.org/10.1016/j.trip.2025.101725
9. Watson, G. P., Van Fossen, J. A., Schuster, A. M., **Agrawal, S.**, Tidwell, M. L. **[G]**, & Cotten, S. R. (2025). Navigating change: Exploring gig and taxi drivers' perceptions of autonomous vehicles and their influence on their career decisions. *Journal of Career Assessment*. https://doi.org/10.1177/10690727251363579
10. **Agrawal, S.**, Watson, G. P., Schuster, A. M., Cotten, S. R., Tidwell, M. L. **[G]**, Baker, N. **[G]**, & Wang, S. (2025). It's more than money: The research costs of spam responses in online survey studies. *Research Ethics*, *22*(3), 433-450. https://doi.org/10.1177/17470161251357454
11. Wang, S., **Agrawal, S.**, Mack, E. A., Kalani, N. **[G]**, Chang, C.-H., Cotten, S. R., & Savolainen, P. (2024). Downscaling occupational employment data from the state to the census tract level. *Applied Geography*, *170*, 103349. https://doi.org/10.1016/j.apgeog.2024.103349
12. Schuster, A. M., Van Fossen, J. A., **Agrawal, S.**, Wang, S., Mack, E. A., Tidwell, M. L. **[G]**, & Cotten, S. R. (2024). Disadvantaged workers are not all alike in attitudes towards automation. *Transportation Research Interdisciplinary Perspectives*, *26*, 101164. https://doi.org/10.1016/j.trip.2024.101164

13. Kolangarakath, A. **[G]**, Madathil, K. C., Hegde, S., **Agrawal, S.**, Simmons, L. **[U]**, Bian, M. **[U]**, Molloseau, G. **[U]**, Holmstedt, C., LeBlanc, D., Harvey, J., McGeorge, T., Spampinato, M., & Roberts, D. (2024). Barriers to integrating portable magnetic resonance imaging systems in emergency medical service ambulances for stroke care. *Ergonomics*, *67*(12), 1938–1957. https://doi.org/10.1080/00140139.2024.2367157
14. Schuster, A. M., **Agrawal, S.***, Britt, N. **[G]**, Sperry, D. **[G]**, Van Fossen, J. A., Wang, S., Mack, E. A., & Cotten, S. R. (2023). Will automated vehicles solve the truck driver shortages? Perspectives from the trucking industry. *Technology in Society*, *74*, 102313. https://doi.org/10.1016/j.techsoc.2023.102313
15. Tang, T., Guo, Y., Wang, H., Li, X., & **Agrawal, S.** (2023). Determinants of helmet use intention among e-bikers in China: An application of the Theory of Planned Behavior, the Health Belief Model, and the Locus of Control. *Transportation Research Record*, *2678*(2), 753-769. https://doi.org/10.1177/03611981231176290
16. Zhou, A. **[G]**, Liu, Y. **[G]**, Tenenboim, E., **Agrawal, S.**, & Peeta, S. (2023). Car-following behavior of human-driven vehicles in mixed-flow traffic: A driving simulator study. *IEEE Transactions on Intelligent Vehicles*, *8*(1), 2661-2673. https://doi.org/10.1109/TIV.2023.3257962
17. **Agrawal, S.**, Peeta, S., & Miralinaghi, M. (2023). Multi-paradigm modeling framework to evaluate the impacts of travel patterns on electric vehicle battery lifespan. *Journal of Advanced Transportation*, *2023*, 1689075. https://doi.org/10.1155/2023/1689075
18. **Agrawal, S.**, Schuster, A. M., Britt, N. **[G]**, Mack, E. A., Tidwell, M. L. **[G]**, & Cotten, S. R. (2023). Building on the past to help prepare the workforce for the future with automated vehicles: A systematic review of automated passenger vehicle deployment timelines. *Technology in Society*, *72*, 102186. https://doi.org/10.1016/j.techsoc.2022.102186
19. **Agrawal, S.**, Peeta, S., & Benedyk, I. (2023). Evaluating the cognitive and psychological effects of real-time auditory travel information on drivers using EEG. *Behaviour & Information Technology*, *42*(10), 1617-1639. https://doi.org/10.1080/0144929X.2022.2093273
20. Sperry, D. **[G]**, Schuster, A., Cotten, S. R., **Agrawal, S.**, Mack, E. A., Britt, N. **[U]**, & Liberman, J. **[G]** (2022). Trucking in the era of COVID-19. *American Behavioral Scientist*. https://doi.org/10.1177/00027642211066039
21. Guo, Y., Peeta, S., **Agrawal, S.**, & Benedyk, I. (2022). Impacts of Pokémon GO on route and mode choice decisions: Exploring the potential for integrating augmented reality, gamification, and social components in mobile apps to influence travel decisions. *Transportation, 49, 395-444*. https://doi.org/10.1007/s11116-021-10181-9
22. **Agrawal, S.**, Schuster, A., Britt, N. **[U]**, Liberman, J. **[G]**, & Cotten, S. R., (2022). Expendable to essential? Changing perceptions of gig workers on Twitter in the onset of COVID-19. *Information, Communication & Society*, *25*(5), 634-653. https://doi.org/10.1080/1369118X.2021.2020323

23. **Agrawal, S.**, & Peeta, S. (2021). Evaluating the impacts of situational awareness and mental stress on takeover performance under conditional automation. *Transportation Research Part F: Traffic Psychology and Behaviour*, *83*, 210-225. https://doi.org/10.1016/j.trf.2021.10.002
24. **Agrawal, S.**, & Peeta, S. (2021). Evaluating the impacts of driver's pre-warning cognitive state on takeover performance under conditional automation. *Transportation Research Part F: Traffic Psychology and Behaviour*, *83*, 80-98. https://doi.org/10.1016/j.trf.2021.10.004
25. Mack, E. A., **Agrawal, S.***, & Wang, S. (2021). The impacts of the COVID-19 pandemic on transportation employment: A comparative analysis. *Transportation Research Interdisciplinary Perspectives*, *12*, 100470. https://doi.org/10.1016/j.trip.2021.100470
26. Guo, Y., **Agrawal, S.**, Peeta, S., & Benedyk, I. (2021). Safety and health perceptions of location-based augmented reality gaming app and their implications. *Accident Analysis and Prevention*, *161*, 106354. https://doi.org/10.1016/j.aap.2021.106354
27. **Agrawal, S.**, & Peeta, S. (2021). Hybrid route choice model incorporating latent cognitive effects of real-time travel information using physiological data. *Transportation Research Part F: Traffic Psychology and Behaviour*, *81*, 223–239. https://doi.org/10.1016/j.trf.2021.05.021
28. **Agrawal, S.**, Zheng, H., Peeta, S., & Kumar, A. (2016). Routing aspects of electric vehicle drivers and their effects on network performance. *Transportation Research Part D: Transport and Environment*, *46*, 246–266. https://doi.org/10.1016/j.trd.2016.04.002
29. Guo, Y., **Agrawal, S.**, Peeta, S., & Somenahalli, S. (2016). Impacts of property accessibility and neighborhood built environment on single-unit and multiunit residential property values. *Transportation Research Record*, *2568*, 103–112. https://doi.org/10.3141/2568-15

Conference Proceedings (Peer-reviewed)

1. Kolangarakath, A. **[G]**, Madathil, K. C., Hegde, S., **Agrawal, S.**, Holmstedt, C., LeBlanc, D., Spampinato, M., Harvey, J., Roberts, D., & McGeorge, T. (2024). Challenges to integrating portable Magnetic Resonance Imaging systems in emergency medical service ambulances for stroke care. *Proceedings of the Human Factors and Ergonomics Society (HFES) Annual Meeting*. http://dx.doi.org/10.1177/10711813241275495 **[1st place, HFES Health Care Technical Group Student Paper Award]**
2. Souders, D. J., **Agrawal, S.**, Li, Y. **[G]**, & Peeta, S. (2021). Highlighting the driver's responsibilities when using conditional driving automation: Effects on take-over performance and monitoring. *Proceedings of the Human Factors and Ergonomics Society (HFES) Annual Meeting*, 64(1). https://doi.org/10.1177/1071181320641481
3. Song, D. Y., Peeta, S., Hsu, Y., & **Agrawal, S.** (2017). Role of psychological effects of real-time travel information provision on en route traveler route choice decisions. *9th International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (DAC)*, 277–283. https://doi.org/10.17077/drivingassessment.1647

4. **Agrawal, S.**, Liu, X., Jin, X., Vora, A., Shaver, G., Peeta, S., Dietz, J., & Pekny, J. F. (2017). Quantifying the impacts of electric vehicle travel patterns on battery lifespan. *Transportation Research Board 96th Annual Meeting*, 17-00601. https://trid.trb.org/view/1437290

Journal Articles (Submitted or Under Review)

1. **Agrawal, S.**, Mack, E. A., Van Fossen, J. A., Cotten, S. R., & Chang, C.-H. (under review). Barriers and facilitators of AV adoption: Industry and occupational perspectives. *Technology in Society*.
2. Van Fossen J. A., **Agrawal, S.**, Chang, C.-H., Mack, E. A., Wang, S., & Cotten, S. R. (submitted). Job satisfaction and attitudes towards automation predict willingness to continue through work role automation. *Journal of Applied Behavioral Science*.
3. Van Fossen J. A., Schuster, A. M., **Agrawal, S.**, Mack, E. A., Chang, C.-H., & Cotten, S. R. (submitted). Older workers are more willing to retrain for automated vehicles at higher levels of job satisfaction. *International Journal of Training and Development*.
4. Schuster, A. M., **Agrawal, S.**, Watson, G. P., & Cotten, S. R. (submitted). The relationship between older adults' attitude towards AI and likelihood of using AI in Healthcare. *Innovation in Aging*.
5. **Agrawal, S.**, Watson, G. P., Schuster, A. M., & Cotten, S. R. (submitted). A flexible, systematic, and transparent approach to detecting fraudulent responses in online surveys. *Behavior Research Methods*.
6. Lai, X. **[G]**, Koob, C. **[G]**, Yousufzai, O., **Agrawal, S.**, Griffin, S. & Amati, J. B. (submitted). Association between child opportunity index with serious pediatric mental and behavioral health conditions within a patient navigation program: mediating through adverse childhood experiences. Children and Youth Services Review.

Manuscripts in Progress

1. Schuster, A. M., **Agrawal, S.**, Watson, G. P., & Cotten, S. R. (in preparation). Generational differences in perceptions of artificial intelligence used in healthcare.
2. Liu, Y., Byrne, K. A., Aly, H., **Agrawal, S.**, & Knijnenburg, B. (in preparation). User-tailored privacy: A data-driven approach to developing online cookie setting interfaces.
3. Chen, Y. **[G]**, **Agrawal, S.**, Benedyk, I., & Peeta, S. (in preparation). Cyberattack impacts on driver psychophysiology and driving performance in mixed-flow traffic: Driving simulator study.
4. **Agrawal, S.**, Schuster, A. M., Watson, G. P., & Cotten, S. R. (in preparation). Examining the susceptibility of online recruitment strategies to fraudulent responses: A survey of online survey researchers.
5. **Agrawal, S.**, Wang, S., Mack, E. A., Chang, C.-H., & Cotten, S. R. (in preparation). An analysis of occupational dynamics in an era of technological change.

6. Liu, Y. **[G]**, **Agrawal, S.**, Tenenboim, E., Zhou, A., & Peeta, S. (in preparation). Lane-change behavior of human drivers in mixed-traffic conditions: A safety perspective.
7. Liu, Y. **[G]**, Zhou, A., **Agrawal, S.**, Tenenboim, E., & Peeta, S. (in preparation). Analyzing complexity of lane-change behavior for human drivers in mixed traffic: A driving simulator study.
8. **Agrawal, S.**, Watson, G. P., Schuster, A. M., & Cotten, S. R. (in preparation). A quasi-experimental study on the prevalence of spam in online surveys: Comparing participant recruitment through social media ads and online panels.
9. Simmons, T. G. **[G]**, **Agrawal, S.***, & Souders, D. J. (in preparation). Driver behavior and error attribution under cyberattacks on blind spot warning system in connected vehicle environments.

Technical Reports

1. Souders, D. J., **Agrawal, S.**, & Peeta, S. (2022). *Impacts of in-vehicle alert systems on situational awareness and driving performance in SAE level 3 vehicle automation* (Project No. 30). Center for Connected and Automated Transportation (CCAT), USDOT Region 5 Regional University Transportation Center, Purdue University, West Lafayette, IN. http://dx.doi.org/10.5703/1288284317573
2. **Agrawal, S.**, Benedyk, I., & Peeta, S. (2022). *Development of in-vehicle information dissemination mechanisms to reduce cognitive burden in the information-rich driving environment* (Project No. 23). Center for Connected and Automated Transportation (CCAT), USDOT Region 5 Regional University Transportation Center, Purdue University, West Lafayette, IN. http://dx.doi.org/10.5703/1288284317467
3. **Agrawal, S.**, Song, D. Y., Peeta, S., & Benedyk, I. (2018). *Driving simulator based interactive experiments: Understanding driver behavior, cognition and technology uptake under information and communication technologies* (NEXTRANS Project No. 143PUY2.1). USDOT Region 5 Regional University Transportation Center, Purdue University, West Lafayette, IN. https://rosap.ntl.bts.gov/view/dot/35826
4. **Agrawal, S.**, Liu, X., Pekny, J. F., Peeta, S., Dietz, J., & Miralinaghi, M. (2016). *Developing operational and policy insights into next generation vehicle needs based on an integrated understanding of the transportation and energy system of systems* (NEXTRANS Project No. 107PUY2). USDOT Region 5 Regional University Transportation Center, Purdue University, West Lafayette, IN. https://trid.trb.org/view/1482207
5. Peters, J., Kumar, A., Zheng, H., **Agrawal, S.**, & Peeta, S. (2014). *Integrated framework to capture the interdependencies between transportation and energy sectors due to policy decisions* (NEXTRANS Project No. 079PY04). USDOT Region 5 Regional University Transportation Center, Purdue University, West Lafayette, IN. https://trid.trb.org/view/1312519

CONFERENCE PRESENTATIONS

[P] Presenter (if the first author is not the presenter)
[G] Graduate student mentee
[U] Undergraduate student mentee

Upcoming Presentations

1. Souders, D. J., & **Agrawal, S.** (2026, Oct 18-23). *Technology readiness differentially shapes trust pathways to generative AI use*. Advance Systems and Practices through Innovation, Research and Education (ASPIRE), HFES International Annual Meeting, Reno, NV.
2. Simmons, T. G. **[G]**, **Agrawal, S.**, & Souders, D. J. (2027, Jan 10-14). *Investigating Driver Behavior Under Cyberattacks in Connected Vehicle Environments*. 106th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.

Peer-reviewed Presentations

1. **Agrawal, S.**, Van Fossen, J. A., Schuster, A. M., Mack, E. A., Cotten, S. R., & Chang, C.-H. (2026, Jan 11-15). *Professional drivers' perceptions of automated vehicles and willingness to train for AV integration: A latent profile analysis* [Poster]. 105th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
2. Schuster, A. M., Watson, G. P., **Agrawal, S.**, & Cotten, S. R. **[P]** (2025, November 12-15). *The relationship between older adults' attitude towards AI and likelihood of using AI in healthcare* [Paper]. Gerontological Society of America, Boston, MA.
3. Nguyen, P. **[G]**, Barnes, D. **[G]**, Watson, G. P., Schuster, A. M., **Agrawal, S.**, & Cotten, S. R. (2025, July 8-11). *Navigating workplace AI adoption: The roles of perceived usefulness, ease of use, and trust through employee attitudes* [Paper]. Work, Stress and Health (WSH) 2025 Conference, Seattle, WA.
4. **Agrawal, S.**, Cotten, S. R., Mack, E. A., Chang, C.-H., Schuster, A. M., Van Fossen, J. A. **[P]**, Watson, G. P., Wang, S., Savolainen, P., & Verboncoeur, J. (2025, June 2-4). *Preparing the Future Workforce for the Era of Automated VEhicles (WEAVE)* [Poster]. TRB National Summit on The Future of the Transportation Workforce, Westminster, CO.
5. Schuster, A. M., **Agrawal, S.**, Watson, G. P., & Cotten, S. R. (2025, May 13-16). *Differences in perceptions of artificial intelligence used in healthcare between four generations* [Poster]. 80th Annual American Association for Public Opinion Research (AAPOR) Conference, St. Louis, MO.
6. **Agrawal, S.**, Watson, G. P., Schuster, A. M. **[P]**, & Cotten, S. R. (2025, May 13-16). *The FAST (Flexible, Adaptive, Systematic, and Transparent) approach to detecting fraudulent responses in online surveys* [Poster]. 80th Annual American Association for Public Opinion Research (AAPOR) Conference, St. Louis, MO.

7. Van Fossen, J. A., Schuster, A. M., **Agrawal, S.**, Mack, E. A., Chang, C. H., & Cotten, S. R. (April 2-5, 2025). *Age interacts with job satisfaction and continuance commitment to predict driver willingness to retrain for automation. New insights for age differences and supporting factors for adapting to work changes* [Paper]. 40th Annual Conference of the Society for Industrial and Organizational Psychology (SIOP), Denver, CO.
8. Liu, Y. **[G]**, **Agrawal, S.**, Tenenboim, E., Zhou, A., & Peeta, S. (2025, January 5-9). *Lane-change behavior of human drivers in mixed-traffic conditions: A safety perspective* [Poster]. 104th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
9. Nguyen, P. **[G]**, Foshee, M. **[G]**, Watson, G. P., Schuster, A. M., **Agrawal, S.**, & Cotten, S. R. (2024, November 8-9). *AI attitudes at work: The influence of retraining opportunities and leadership status* [Poster]. 20th Annual River Cities Industrial and Organizational (RCIO) Psychology Conference, Chattanooga, TN.
10. Himmler, J. R. **[G]**, Everett, J. A. **[G]**, Waston, G. P., **Agrawal, S.**, Schuster, A. M., & Cotten, S. R. (2024, November 8-9). *Understanding employee intentions to use AI from a job demands-resources perspective* [Poster]. 20th Annual River Cities Industrial and Organizational (RCIO) Psychology Conference, Chattanooga, TN.
11. Chen, Y. **[G]**, **Agrawal, S.**, Benedyk, I., & Peeta, S. (2024, October 20-23). *Cyberattack impacts in mixed-flow traffic: Driving simulator study* [Paper]. INFORMS Annual Meeting, Seattle, WA.
12. Kolangarakath, A., Madathil, K. C., Hegde, S., **Agrawal, S.**, Holmstedt, C., LeBlanc, D., Harvey, J., Spampinato, M., McGeorge, T., & Roberts, D. (2024, September 9-13). *Challenges to integrating magnetic resonance imaging systems in ambulances for stroke care* [Paper]. Advance Systems and Practices through Innovation, Research and Education (ASPIRE), HFES International Annual Meeting, Phoenix, AZ.
13. Souders, D. J., & **Agrawal, S.** (2024, September 9-13). *Developing a Driver Monitoring System Driver Experience (DMSDX) scale using insights from developmental psychology* [Paper]. Advance Systems and Practices through Innovation, Research and Education (ASPIRE), HFES International Annual Meeting, Phoenix, AZ.
14. Kolangarakath, A., Madathil, K. C., Hegde, S., **Agrawal, S.**, Simmons, L. **[U]**, Bian, M. **[U]**, Molloseau, G. **[U]**, Holmstedt, C., LeBlanc, D., Harvey, J., McGeorge, T., Spampinato, M., & Roberts, D. (2024, August 25-29). *Challenges to integrating magnetic resonance imaging systems in ambulances for stroke care* [Paper]. 22nd Triennial Congress of the International Ergonomics Association (IEA), Jeju, Republic of Korea.
15. Schuster, A. M., **Agrawal, S.**, Watson, G. P., & Cotten, S. R. (2024, August 9-13). *Researchers' experiences with online survey fraudulent responders* [Paper]. 119th American Sociological Association (ASA) Annual Meeting, Montreal, Canada.
16. Britt, N. **[G]**, Schuster, A. M., **Agrawal, S.**, Chang, C.-H., Van Fossen, J. A., Mack, E. A., & Cotten, S. R. (2024, August 9-13). *Truck drivers and autonomous trucks: A topic modeling analysis of truck driver posts* [Paper]. 119th American Sociological Association (ASA) Annual Meeting, Montreal, Canada.

17. Souders, D. J., & **Agrawal., S.** (2024, August 6-10). *Assessing driver monitoring systems: Unique insights from parenting styles* [Paper]. American Psychological Association (APA) Annual Convention, Seattle, WA.
18. Liu, Y. **[G]**, **Agrawal, S.**, Tenenboim, E., Zhou, A., & Peeta, S. (2024, June 15-18). *Lane-change behavior of human drivers in mixed traffic: A driving simulator study* [Poster]. ASCE International Conference on Transportation & Development (ICTD), Atlanta, GA.
19. **Agrawal, S.**, Watson, G. P., Tidwell, M. **[G]**, Wang, S., Schuster, A. M. **[P],** Baker, N. **[G]**, & Cotten, S. R. (2024, May 15-17). *It's More Than Money: The true costs of spam in online survey research* [Poster]. 79th Annual American Association for Public Opinion Research (AAPOR) Conference, Atlanta, GA.
20. **Agrawal, S.**, Watson, G. P., Schuster, A. M., & Cotten, S. R. **[P]** (2024, May 11-16). *'Cool, so many responses. Wait, so many responses!' Our first real experience with online survey bots* [Paper]. Association of Computing Machinery (ACM) CHI Conference on Human Factors in Computing Systems, Honolulu, HI.
21. Watson, G. P., Tidwell, M. **[G]**, Schuster, A. M., **Agrawal, S.**, Van Fossen, J. A., & Cotten, S. R. (2024, April 17-20). *Navigating change: Exploring gig and taxi drivers' perceptions of autonomous vehicles and their influence on turnover intentions* [Paper]. 38th Annual Conference of the Society for Industrial and Organizational Psychology (SIOP), Chicago, IL.
22. Zhou, A. **[G]**, Liu, Y. **[G]**, Tenenboim, E., **Agrawal, S.**, & Peeta, S. (2024, January 7-11). *Car-following behavior of human-driven vehicles in mixed-flow traffic: A driving simulator study* [Paper]. 103rd Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
23. **Agrawal, S.**, Watson, G. P. **[P]**, Wang, S., Baker, N. **[G]**, Tidwell, M. **[G]**, Kalani, N. **[G]**, Schuster, A. M., & Cotten, S. R. (2023, November 8-11). *Are you For Real? The research costs of Fraudulent Responses in online survey studies* [Paper]. Work, Stress and Health (WSH) Conference 2023, virtual.
24. **Agrawal, S.**, Schuster, A. M., Britt, N. **[G]**, Mack, E. A., Tidwell, M. L. **[G]**, & Cotten, S. R. (2023, August 9-10). *Building on the past to help prepare the workforce for the future with automated vehicles: A systematic review of automated passenger vehicle deployment timelines* [Paper]. 5th Bridging Transportation Researchers (BTR) Online Conference, virtual.
25. **Agrawal, S.**, Peeta, S., & Benedyk, I. (2023, January 8-12). *Evaluating the cognitive and psychological effects of real-time auditory travel information on drivers using EEG* [Poster]. 102nd Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
26. **Agrawal, S.**, & Peeta, S. (2023, January 8-12). Evaluating *the impacts of situational awareness and mental stress on takeover performance under conditional automation* [Poster]. 102nd Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.

27. Schuster, A. M., **Agrawal, S. [P]**, Britt, N. **[U]**, Sperry, D. **[G]**, Van Fossen, J. A. **[G]**, Wang, S., Mack, E. A., Liberman, J. **[G]**, & Cotten, S. R. (2023, January 8-12). *Will automated vehicles solve the truck driver shortages? Perspectives from the trucking industry* [Poster]. 102nd Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
28. Schuster, A. M., Liberman, J. **[G]**, **Agrawal, S.**, Wang, S., Mack, E. A., Sperry, D. **[G]**, Van Fossen, J. A. **[G]**, & Cotten, S. R. (2022, August 5-9). *The future of gig work drivers in the era of automated vehicles* [Paper]. 117th American Sociological Association (ASA) Annual Meeting, Los Angeles, CA.
29. Wang, S., Van Fossen, J. A. **[G]**, Mack, E. A. **[P]**, **Agrawal, S.**, Chang, C.-H., Cotten, S. R., & Savolainen, P. (2022, June 7-10). *Technological change and the workforce: An* occupational *perspective* [Paper]. 6th Global Conference on Economic Geography, Dublin, Ireland.
30. **Agrawal, S.**, & Peeta, S. (2022, January 9-13). *Evaluating the impacts of driver's pre-warning cognitive state on takeover performance* under *conditional automation* [Poster]. 101st Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
31. **Agrawal, S.**, Wang, S., Cotten, S. R., Mack, E. A., Chang, C.-H., Ford, J. K., Savolainen, P., Verboncoeur, J., & Hale, T. (2022, January 9-13). *NSF project WEAVE: "Preparing the Future Workforce for the Era of Automated Vehicles": Project overview and preliminary results* [Poster]. 101st Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
32. **Agrawal, S.**, Sperry, S. **[G]**, Britt, N. **[U]**, Cotten, S. R., & Mack, E. A. (2022, January 9-13). *Barriers and facilitators to automated vehicle deployment: A review of past and current timeline predictions* [Poster]. 101st Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
33. Mack, E. A., **Agrawal, S.**, & Wang, S. (2022, January 9-13). *The impacts of the COVID-19 pandemic on transportation employment: A comparative analysis* [Poster]. 101st Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
34. Wang, S., Mack, E. A., Cotten, S. R., Chang, C.-H., Van Fossen, J. A. **[G]**, **Agrawal, S.**, & Baker, N. **[G]** (2021, November 10-13). *Occupational transitions for older workers in an era of technological change* [Paper]. 68th Annual North American Meetings of the Regional Science Association International, virtual.
35. Sperry, D. **[G]**, Schuster, A., Cotten, S. R., **Agrawal, S.**, Mack, E. A., Britt, N. **[U]**, & Liberman, J. **[G]** (2021, August 5-6). *Trucking in the era of COVID-19* [Paper]. 3rd Bridging Transportation Researchers (BTR) Online Conference, virtual.
36. Sperry, D. **[G]**, Schuster, A., Cotten, S. R., **Agrawal, S.**, Mack, E. A., Britt, N. **[U]**, & Liberman, J. **[G]** (2021, August 4-5). *Trucking during the time of COVID-19* [Paper]. 2021 Media Sociology Symposium (CITAMS), virtual.

37. **Agrawal, S.**, Schuster, A., Britt, N. **[P][U]**, Liberman, J., & Cotten, S. R. (2021, August 4-5). *Changes in Public perception of gig work during the COVID-19 pandemic* [Paper]. 2021 Media Sociology Symposium (CITAMS), virtual.
38. **Agrawal, S.**, & Peeta, S. (2021, January 5-9). *Hybrid route choice model incorporating latent cognitive and psychological effects of real-time travel information using physiological data* [Poster]. 100th Annual Meeting of the Transportation Research Board (TRB), virtual.
39. Souders, D. J., **Agrawal, S.**, Benedyk, I., Guo, Y., Li, Y. and Peeta, S. (2021, January 5-9). *Highlighting the driver's responsibilities when using conditional driving automation: Effects on attitudes, monitoring, and take-over performance* [Paper]. 100th Annual Meeting of the Transportation Research Board (TRB), virtual.
40. Souders, D. J., **Agrawal, S.**, Li, Y., & Peeta, S. (2020, October 5-9). *Highlighting the driver's responsibilities when using conditional driving automation: Effects on take-over performance and monitoring* [Paper]. 64th International Annual Meeting of the Human Factors and Ergonomics Society (HFES), Chicago, IL.
41. Guo, Y., **Agrawal, S.**, Peeta, S., & Benedyk, I. (2020, January 12-16). *Understanding the safety implications of location-based augmented reality mobile apps: Perception, attitude, and app usage behavior* [Poster]. 99th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
42. Guo, Y., Peeta, S., **Agrawal, S.**, & Benedyk, I. (2020, January 12-16). *Understanding the impacts of Pokémon GO on route and mode choice decisions* [Paper]. 99th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
43. **Agrawal, S.**, Benedyk, I., & Peeta, S. (2019, October 20-23). *Evaluating the impacts of real-time travel information on driver physiology* [Paper]. INFORMS Annual Meeting, Seattle, WA.
44. Song, D., Peeta, S., & **Agrawal, S. [P]** (2019, October 20-23). *A holistic approach to understand traveler route choice behavior and satisfaction under real-time travel information provision* [Paper]. INFORMS Annual Meeting, Seattle, WA.
45. **Agrawal, S.**, Benedyk, I., & Peeta, S. (2019, July 24-28). *Evaluating the impacts of real-time auditory travel information provision on driver cognition using EEG spectrum analysis* [Paper]. 10th International Conference on Applied Human Factors and Ergonomics (AHFE), Washington, D.C.
46. Souders, D. J., **Agrawal, S.**, Benedyk, I., Li, Y. **[G]**, & Peeta, S. (2019, July 24-28). *Tailoring introductory information to the level of automation: Effects on attitudes and usage of a simulated level 3 automated driving system* [Paper]. 10th International Conference on Applied Human Factors and Ergonomics (AHFE), Washington, D.C.
47. **Agrawal, S.**, Benedyk, I., & Peeta, S. (2019, February 25-March 1). *Modeling driver physiological state using EEG under auditory real-time travel information provision* [Poster]. Autonomous Vehicles Workshop by Institute for Pure & Applied Mathematics (IPAM), University of California, Los Angeles, CA.

48. Souders, D. J., **Agrawal, S.**, Benedyk, I. **[P]**, Li., Y., & Peeta, S. (2019, February 25-March 1). *Introductory information, trust, & takeover* [Poster]. Autonomous Vehicles Workshop by Institute for Pure & Applied Mathematics (IPAM), University of California, Los Angeles, CA.
49. **Agrawal, S.**, Benedyk, I., & Peeta, S. (November 2018). *Evaluating the cognitive effects of real-time travel information using psychophysiological analysis and their implications for driver decision-making* [Paper]. INFORMS Annual Meeting, Phoenix, AZ.
50. **Agrawal, S.**, Benedyk, I., Peeta, S. **[P]**, & Song, D. Y. (July 2018). *Evaluating driver cognitive state under real-time travel information provision using physiological factors and its impacts on route choice behavior* [Paper]. 15th International Conference on Travel Behavior Research (IATBR), Santa Barbara, CA.
51. **Agrawal, S.**, Benedyk, I. **[P]**, & Peeta, S. (March 2018). *Evaluating the cognitive effects of real-time travel information using physiological indicators* [Poster]. 2018 Global Symposium on Connected and Automated Transportation and Infrastructure, Ann Arbor, MI.
52. **Agrawal, S.**, Benedyk, I., D. Song, & Peeta, S. (October 2017). *Quantifying impacts of real-time travel information on route choice behavior using psychophysiological analysis: A driving simulator-based study* [Paper]. INFORMS Annual Meeting, Houston, TX.
53. **Agrawal, S.**, Liu, X., Jin, X., Vora, A., Shaver, G., Peeta, S., Dietz, J., & Pekny, J. F. (January 2017). *Quantifying the impacts of electric vehicle travel patterns on battery lifespan* [Poster]. 96th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
54. **Agrawal, S.**, He, X., Pasupathy, R., & Peeta, S. (November 2016). *Simulation-based optimization with adaptive sampling strategy for network-wide traffic management and control* [Paper]. INFORMS Annual Meeting, Nashville, TN.
55. **Agrawal, S.**, Kumar, A., Zheng, H., & Peeta, S. (November 2015). Route choice decisions of electric vehicle drivers under different traffic conditions [Paper]. INFORMS Annual Meeting, San Francisco, CA.
56. **Agrawal, S.**, Kumar, A., Zheng, H., & Peeta, S. (January 2015). *Routing aspects of electric vehicle users and their effects on network performance* [Poster]. 94th Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.
57. **Agrawal, S.**, & Peeta, S. (November 2014). Route choice decisions of electric vehicle drivers under different traffic conditions [Paper]. INFORMS Annual Meeting, San Francisco, CA.
58. **Agrawal, S.**, He, X., & Peeta, S. (October 2013). Estimating short-term path travel time distribution using real-time information [Paper]. INFORMS Annual Meeting, Minneapolis, MN.

Invited Presentations

1. Davis, E. **[U]**, D., Merwarth, O. **[U]**, Pallath, H. **[U]**, Patel, J. **[U]**, Patel, M. S. **[U]**, Viehe, J. **[U]**, Agrawal, S., Souders, D. J., Cruz, J. **[U]**, & Simmons, T. G. **[G]** (2025, April 9-11). *Enhancing driver awareness of emergency service vehicles using smartwatch-based notification system* [Poster]. Poster presentation at the 9th Annual Summer Creative Inquiry + Undergraduate Research Showcase, Clemson University, Clemson, SC.
2. Merwarth, O. **[U]**, Pallath, H. **[U]**, Patel, J. **[U]**, Patel, M. S. **[U]**, Viehe, J. **[U]**, Agrawal, S., Souders, D. J., Cruz, J. **[U]**, & Simmons, T. G. **[G]** (2025, April 9-11). *Enhancing driver awareness of emergency service vehicles using smartwatch-based notification system* [Poster]. 20th Annual Focus on Creative Inquiry Forum, Clemson University, Clemson, SC.
3. Storts, R. **[U]**, Barz, J. **[U]**, Clark, C. **[U]**, Cunningham, R. **[U]**, Prescott, A. **[U]**, Stoeffler, A. **[U]**, Souders, D. J., Agrawal, S., Butler, E. **[G]**, & Riley, T. **[G]** (2025, April 9-11). *Hands on, Eyes on: Comparing driver monitoring approaches for minimizing ADAS overreliance* [Poster]. 20th Annual Focus on Creative Inquiry Forum, Clemson University, Clemson, SC.
4. Cruz, J. **[U]**, Merwarth, O. **[U]**, Pallath, H. **[U]**, Syed, U. **[U]**, Butler, E. **[G]**, Souders, D. J., & **Agrawal, S.** (2024, August 20). *Enhancing driver awareness of emergency service vehicles using smartwatch-based notification system* [Poster]. 8th Annual Summer Creative Inquiry + Undergraduate Research Showcase, Clemson, SC.
5. Schuster, A. M., **Agrawal, S.**, Watson, G. P., & Cotten, S. R. (2024, May 1). *Prevalence of fraudulent responders affecting online survey research* [Paper]. Clemson Research Symposium 2024, Clemson, SC.
6. Watson, G. P., **Agrawal, S.**, Schuster, A. M., & Cotten, S. R. (2024, May 1). *Strategies to prevent fraudulent responders infiltrating online survey research* [Paper]. Clemson Research Symposium 2024, Clemson, SC.
7. Arredondo, E. **[U]**, Cruz, J. **[U]**, Oriunuta, S. **[U]**, Pallath, H. **[U]**, Pandiri, S. **[U]**, Syed, U. **[U]**, Riley, T. **[G]**, Butler, E. **[G]**, Merwarth, O. **[U]**, Patel, J. **[U]**, Allen, C. **[U]**, Bourini, Z. **[U]**, Alkelani, O. **[U]**, **Agrawal, S.**, & Souders, D. J. (2024, April 4-6). *Enhancing driver awareness of emergency service vehicles using smartwatch-based notification system* [Poster]. Clemson University 19th Annual Focus on Creative Inquiry Forum, Clemson, SC.
8. Biggers, A. **[U]**, Hird, L. **[U]**, Jamil, A. **[U]**, Patel, R. **[U]**, Patterson, G. **[U]**, Razavi, A. **[U]**, Souders, D. J., **Agrawal, S.**, Baringer, K. **[G]**, Butler, E. **[U]**, Mintz, A. **[G]**, and Riley, T. **[G]** (2023, April 5-7). *Drivers' preference and performance with permissive and authoritative driver monitoring systems while using partial automation* [Poster]. Clemson University 18th Annual Focus on Creative Inquiry Forum, Clemson, SC.
9. Schuster, A. M., **Agrawal, S.**, Britt, N. **[U]**, Sperry, D. **[G]**, Van Fossen, J. A. **[G]**, Wang, S., Mack, E. A., Liberman, J. **[G]**, & Cotten, S. R. **[P]** (2023, January 8-12). *Will automated vehicles solve the truck driver shortages? Perspectives from the trucking industry* [Paper]. AJE15 Committee on Workforce Development and Organizational Excellence Meeting at the 102nd Annual Meeting of the Transportation Research Board (TRB), Washington, D.C.

10. Mack, E. A., Cotten, S. R., Chang, C.-H., Ford, J. K., Savolainen, P., Verboncoeur, J., Hale, T., Schuster, A. M., **Agrawal, S.**, & Wang, S. (2021, December 13-17). *Preparing the Workforce for the Era of Autonomous VEhicles* [Paper]. International Association of Transportation Regulators (IATR) Conference, virtual.
11. **Agrawal, S.** (2020, October 27). *Hybrid route choice model incorporating latent cognitive and psychological effects of real-time travel information using physiological data* [Paper]. Purdue University Institute of Transportation Engineering (ITE) Seminar, West Lafayette, IN.
12. **Agrawal, S.**, & Peeta, S. (2019, May 31). *Modeling electric vehicle battery lifespan using multi-paradigm modeling framework* [Paper]. 1st Annual Conference on Next-Generation Transport Systems, Purdue University, West Lafayette, IN.
13. **Agrawal, S.**, Benedyk, I., & Peeta, S. (2019, March 4-7). *Modeling driver physiological state using EEG under auditory real-time travel information provision* [Poster]. 105th Purdue Road School Transportation Conference and Expo, Purdue University, West Lafayette, IN.
14. **Agrawal, S.** (2017, March 28). *Quantifying the impacts of electric vehicle travel patterns on battery lifespan* [Paper]. Purdue University Institute of Transportation Engineering (ITE) Seminar, West Lafayette, IN.
15. **Agrawal, S.**, Peeta, S., Dietz, J., & Springer, J. (2016, June 9). *Impacts of electric vehicles on residential energy demand* [Poster]. Regional Clean Energy Innovation Forum, Purdue University, West Lafayette, IN.
16. **Agrawal, S.** (2014, February 11). *Impacts of electric vehicles on residential energy demand* [Paper]. Purdue University Institute of Transportation Engineering (ITE) Seminar, West Lafayette, IN.

Webinars

1. **Agrawal, S.**, & Schuster, A. M. (2026, Aug 26). *A guide to detecting fraud in online survey data*. American Association for Public Opinion Research (AAPOR), virtual.
2. **Agrawal, S.** (2024, April 5). *Feasibility and timeline for rolling out AVs* [Paper]. Part of NSF Project WEAVE Webinar, virtual.

TEACHING

Instructor

- PSYC 3090: Introduction to Experimental Psychology
- PSYC 8110: Research Design and Quantitative Methods II
- PSYC 8730: Structural Equation Modeling in Applied Psychology
- PSYC 8990: Introduction to Python and R
- PSYC 8990: Python Programming in Applied Psychology
- PSYC 8970: Special Problems in Applied Psychology
- PSYC 4980: Wearables in Cars

- PSYC 4980: Cyber Crime & Psychology
- PSYC 4980: Vehicle Automation (primary instructor: Dr. Dustin Souders)
- CE 592: Transportation Systems Analysis (teaching assistant for Dr. Srinivas Peeta, Purdue)

Invited Lectures

- Guest lecturer, *Can Smartphone Apps Influence Travel Behavior?*, PSYC 2750 (PI: Morgan McCree), Clemson University, Fall 2024
- Guest lecturer, *Can Smartphone Apps Influence Travel Behavior?*, PSYC 2750 (PI: Savana King), Clemson University, Fall 2023

PROJECTS AND GRANTS

Proposals/Grant Contributions as PI or Co-PI

2026 – 2029	$600,000 ($198,000)	**HCC: Readiness-Aware Human-AI Coordination under Compressed Decision Horizons in Shared Autonomy**. Zhang, L. (PI), Agrawal, S. (Co-PI), Yuan, X. (Co-PI). *National Science Foundation*.
2026 – 2027	$87,356 ($53,201)	**Investigating Driver Behavior Under Cyberattacks in Connected Vehicle Environments: Phase II**. Jeihani, M. (PI), Swami, M. (Co-PI), Mehryaar, E. (Co-PI), Agrawal, S. (Co-PI, Clemson Site PI), & Souders, D. J. (Co-PI). *USDOT National UTC National Center for Transportation Cybersecurity and Resiliency (TraCR)*.
2025 – 2026	$124,998 ($64,467)	**Investigating Driver Behavior Under Cyberattacks in Connected Vehicle Environments**. Jeihani, M. (PI), Swami, M. (Co-PI), Mehryaar, E. (Co-PI), Agrawal, S. (Co-PI, Clemson Site PI), & Souders, D. J. (Co-PI). *USDOT National UTC National Center for Transportation Cybersecurity and Resiliency (TraCR)*.
2023 – present	$10,100	**Wearables Redefining Mobility: Investigating the Use of Wearable Devices to Enhance User Experience and Driver Safety**. Agrawal, S. (PI), & Souders, D. J. (Co-PI). *Clemson University Creative Inquiry*.
2022 – present	$8,600	**Driving Simulation & Eye Tracking for Human Performance Research**. Souders, D. J. (PI) & Agrawal, S. (Co-PI). *Clemson University Creative Inquiry*.

Proposals/Grants Contributions as Non-PI

2021 – 2025	$2,325,489	**Preparing the Future Workforce for the Era of Automated Vehicles (WEAVE)**. Cotten, S.R. (PI), Mack, E.A. (Co-PI), Chang, C.-H. (Co-PI), Savolainen, P. (Co-PI), Verboncoeur, J. (Co-PI), & Ford, K. (Co-PI). *NSF Social and Economic Sciences (SES)*

2019 – 2020	$150,000	**Investigation of AV Operational Issues using Driving Simulator Equipment**. Labi, S. (PI), & Pitts, B. (Co-PI). *USDOT UTC (Region 5): Center for Connected and Automated Transportation (CCAT)*.
2018 – 2022	$356,674	**Impacts of In-vehicle Alert Systems on Situational Awareness and Driving Performance in SAE Level 3 Vehicle Automation.** Peeta, S. (PI). *USDOT UTC (Region 5): Center for Connected and Automated Transportation (CCAT)*.
2017 – 2019	$240,245	**Develop In-Vehicle Information Dissemination Mechanisms to Reduce Cognitive Burden in the Information-Rich Driving Environment**. Peeta, S. (PI). *USDOT UTC (Region 5): Center for Connected and Automated Transportation (CCAT)*.
2017 – 2019	$300,000	**Affordable Net Zero Housing and Transportation Solutions**. Raymond, L. (PI), Braun, J. (Co-PI), Karava, P. (Co-PI), & Peeta, S. (Co-PI). *Purdue Discovery Park Big Idea Challenge*.
2017 – 2019	$249,891	**Design of Urban Landscape and Road Networks to Accommodate CAVs**. Peeta, S. (PI). *USDOT UTC (Region 5): Center for Connected and Automated Transportation (CCAT)*.
2017 – 2018	$219,497	**Collaborative Research: Statistical Learning, Driving Simulator-Based Modeling, and Computationally Tractable Dynamic Traffic Assignment**. Friesz, T. (PI), & Peeta, S. (PI). *NSF Civil, Mechanical and Manufacturing Innovation (CMMI)*.
2017 – 2018	$4,770,000	**Enabling High-Efficiency Operation through Next-Generation Control Systems Development for Connected and Automated Class 8 Trucks**. Shaver, G. M. (PI), DeLaurentis, D. A. (Co-PI), Mou, S. (Co-PI), Peeta, S. (Co-PI), & Sundaram, N. J. (Co-PI). *USDOE ARPA-E NEXTCAR Program*.
2015 – 2017	$630,000	**Driving Simulator Based Interactive Experiments: Understanding Driver Behavior, Cognition and Technology Uptake under Information and Communication Technologies**. Peeta, S. (PI). *USDOT UTC (Region 5): NEXTRANS Center*.
2013 – 2015	$163,978	**Developing Operational and Policy Insights into Next Generation Vehicle Needs Based on an Integrated Understanding of the Transportation and Energy System of Systems**. Peeta, S. (PI). *USDOT UTC (Region 5): NEXTRANS Center*.

2013 – 2015	$500,000	**Driving Simulator Laboratory: Traveler Behavior Modeling and Interactive Experiments to Address Mobility and Safety Needs**. Peeta, S. (PI). *USDOT UTC (Region 5): NEXTRANS Center*.
2012 – 2014	$146,768	**Integrated Framework to Capture the Interdependencies between Transportation and Energy Sectors due to Policy Decisions**. Peeta, S. (PI). *USDOT UTC (Region 5): NEXTRANS Center*.

PROFESSIONAL DEVELOPMENT TRAINING

- NSF STRIDE ART Academy, Clemson University, Fall 2026
- NSF CAREER Academy, Clemson University, Spring 2025
- How to Choose a Model for Longitudinal Data (three-day online course by Dr. Kenneth Bollen), Statistical Horizon, Spring 2024
- NSF CAREER Academy, Clemson University, Spring 2023
- NSF CAREER Academy, Clemson University, Spring 2022
- NSF CAREER (online workshop), Clemson University, October 2021
- Demystifying NIH and NSF (online workshop), Clemson University, September 2021
- 2021 Cornell Translational Research Summer Institute (two-day online workshop), Cornell University, June 2021
- Clemson Grantsmanship 101 (half-day online workshop), Clemson University, May 2021

HONORS AND AWARDS

- 1st place, Sue Bogner Best Student Paper Award, Human Factors and Ergonomics Society Health Care Technical Group (HFES HCTG), 2024 [student: Arvind Kolangarakath]
- Marc D. and Carol W. Gill Endowment Fund for Civil Engineering, 2019
- Outstanding Student Speaker Award, Institute of Transportation Engineers, Purdue Student Chapter, Spring 2017
- 1st place, International Association of Transportation Regulators (IATR) Hack-A-Thon, 2016 – 2017
- 3rd place, Regional Mathematics Olympiad, India (Western Region), 2007

ACADEMIC AND PROFESSIONAL SERVICE

Dissertation and Thesis Committees:

Ph.D. Dissertation (current)

- Adam Tresidder (current; committee member). Psychology, Clemson University.
- Elenah Rosopa (current; committee member). Psychology, Clemson University.

- Yangjiao Chen (current; committee member). Civil Engineering, Georgia Institute of Technology.

Ph.D. Dissertation (past)

- Jordan Britt (Spring 2026; committee member). *A socio-cognitive process theory of error response: evidence from shot selection in basketball*. Psychology, Clemson University.
- Yizhou "Louis" Liu (Spring 2026; committee member). *An empirical exploration of privacy fatigue and design interventions to empower internet users' decisions regarding online cookies*. Psychology, Clemson University.
- Heather Watkins (Summer 2025; committee member). *Gesture-based icon messages: Examining the effects of a nonverbal transparency strategy for supporting situation awareness in human-autonomy communication*. Psychology, Clemson University.
- Yongyang Liu (Fall 2024; committee member). *Navigating mixed traffic: Lateral and longitudinal control for connected and autonomous vehicles with a human-centric approach*. Civil Engineering, Georgia Institute of Technology.
- Savana King (Spring 2024; committee member). *Understanding road users' use, misuse, and disuse of fluorescent and retroreflective materials at night*. Psychology, Clemson University.

M.S. Thesis (current)

- Trent Simmons (current; committee chair). Psychology, Clemson University.
- Anna Falbe (current; committee chair). Psychology, Clemson University.
- Sairah Abraham (current; committee member). Psychology, Clemson University.
- Cara Levin (current; committee member). Psychology, Clemson University.
- Delaini Daughenbaugh (current; committee member). Psychology, Clemson University.
- Josh Estrada (current; committee member). Psychology, Clemson University.

M.S. Thesis (past)

- Tyler Riley (Fall 2025; committee chair). *Exploring augmented reality non-driving-related-task locations to enhance driver situation awareness in conditionally automated vehicles*. Psychology, Clemson University.
- Gayatri Anoop (Spring 2024; committee member). *Efficacy of virtual reality-based simulations in training aviation maintenance technicians on maintenance procedures*. Industrial Engineering, Clemson University.
- Arvind Kolangarakath (Fall 2023; committee member). *Barriers to integrating magnetic resonance imaging systems in emergency medical service ambulances for stroke care*. Industrial Engineering, Clemson University.

Reviewer

Grant Panels

- National Science Foundation (two virtual panels)

Journals

- Applied Ergonomics
- Behaviour & Information Technology
- International Journal of Environmental Research and Public Health
- International Journal of Human–Computer Interaction
- International Journal of Industrial Ergonomics
- Journal of Advanced Transportation
- npj Sustainable Mobility and Transport
- PLOS ONE
- Scientific Reports
- Transactions on Intelligent Transportation Systems
- Transport Policy
- Transportation Research Record
- Transportation Research Part B: Methodological
- Transportation Research Part D: Transport and Environment
- Transportation Research Interdisciplinary Perspectives

Conferences

- CHI conference on Human Factors
- IEEE Forum on Integrated and Sustainable Transportation Systems
- International Annual Meeting of the Human Factors and Ergonomics Society (HFES)
- International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design (DAC)
- Road Safety & Simulation
- Transportation Planning and Implementation Methodologies for Developing Countries
- Transportation Research Board (TRB) Annual Meeting
- World Conference on Transport Research Society (WCTR)

University Events

- Clemson Annual Focus on Creative Inquiry (FoCI) Poster Forum, April 2025
- Clemson Summer Creative Inquiry + Undergraduate Research Symposium, August 2024
- Clemson Summer Creative Inquiry + Undergraduate Research Symposium, August 2022
- Clemson Graduate Research and Discovery Symposium (GRADS), March 2023

University & Departmental Committees

- Human Subjects/Ethics Committee, Department of Psychology, Clemson University, 2025 – present

Other Service

- Technical Committee Chair, 1st Annual Conference on Next-Generation Transport Systems, Purdue University, 2019
- Webmaster, Institute of Transportation Engineers, Purdue University, 2015 – 2016
- Manager, "Aakaar" Civil Department Festival, IIT Bombay, 2010 – 2011

OTHER PROFESSIONAL EXPERIENCE

- Research Intern, Mobility Department, Austrian Institute of Technology (AIT) GmbH, Austria, Summer 2012
- Research Intern, ITS Planners and Engineers Pvt. Ltd., India, Summer 2011

SKILLS

- Programming languages: Python, R, JavaScript, PHP, Java
- Technical software: SPSS, MPlus, LIMDEP/NLOGIT, MATLAB, CPLEX
- Driving simulators: Realtime Technologies, AVSimulation/OKTAL
- Traffic simulators: AIMSUN, VISSIM, DYNASMART, SUMO