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| Academic Positions | Graduate Student Research Assistant Corso Research Group University of Michigan, Ann Arbor, MI | September 2017-Present |
| | Research Engineer Intelligent Vehicle Systems Southwest Research Institute, San Antonio, TX | June 2012-August 2017 |
| | Undergraduate Researcher Collaborative Mechatronics Lab University of Denver, Denver, CO | June 2011-August 2011 |
| Research Focus | The interaction between noisy humans and black-box models. When should the model request more information, and how should that information be treated? | |
| Education | University of Michigan Ph. D. in Robotics Advisor: Jason J. Corso | Ann Arbor, MI January 2023 |
| | University of Michigan M.S. in Robotics | Ann Arbor, MI May 2019 |
| | University of Texas, San Antonio M.S. in Applied Mathematics/Industrial Mathematics | San Antonio, TX May 2015 |
| | Rose-Hulman Institute of Technology B.S. in Mechanical Engineering | Terre Haute, IN May 2012 |
| Publications | S. J. Lemmer , A. Guo, and J. J. Corso. Human-Centered Deferred Inference: Measuring User Interactions and Setting Deferral Criteria for Human-AI Teams. To be published in <i>Proceedings of the ACM International Conference on Intelligent User Interfaces</i> , 2023. AR: 24.1%, h5: 40 (IUI) | |
| | S. J. Lemmer and J. J. Corso. Evaluating and Improving Interactions with Hazy Oracles. To be published in <i>Proceedings of the AAI Conference on Artificial Intelligence</i> , 2023. AR: 19.6%; h5: 180 (AAAI) | |
| | S. J. Lemmer and J. J. Corso. Ground-truth or DAER: Selective Re-query of Secondary Information. In <i>Proceedings of the International Conference on Computer Vision</i> , 2021. AR: 25.9%; h5: 184 (ICCV) | |
| | S. J. Lemmer , J. Y. Song, and J. J. Corso. Crowdsourcing More Effective Initializations for Single-Target Trackers Through Automatic Re-querying. In <i>Proceedings of the ACM Conference on Human Factors in Computing Systems</i> , 2021. AR: 26.3%; h5: 101 (CHI) | |

J. Y. Song, **S. J. Lemmer**, M. X. Liu, S. Yam, J. J. Corso, and W. S. Lasecki. Popup: Reconstructing 3d video using particle filtering to aggregate crowd responses. In *Proceedings of the ACM International Conference on Intelligent User Interfaces*, 2019. *AR: 25%; h5: 27 (IUI)*

P. K. Sturgeon, C. M. Mott, **S. J. Lemmer**, and M. A. Brown. Subtle Anomaly Detection in the Global Dynamics of Connected Vehicle Systems. In *Proceedings of the Intelligent Transport Systems Congress*. 2016.

S. J. Lemmer. Loosening the Reins: Decentralized Allocation of Resources and Tasks for Heterogeneous Multi-Agent Systems. In *Proceedings of AUVSI Xponential*, 2016

Patents

J. Y. Song, **S. J. Lemmer**, J. J. Corso, and W. S. Lasecki. Reconstructing 3D Video Using Particle Filtering to Aggregate Crowd Responses. United States Patent Application, No. 2020/0,202,615 A1.

J. D. Walker, D. J. Pomerening, K. C. Kozak, N. J. Mueshke, **et al.**, Edge-On Armor System with Translating and Rotating Armor Panels. United States Patent, No. 10,775,136 B2.

S. J. Lemmer, C. M. Mott, and P. A. Avery. Autonomous Team Formation and Task Negotiation Among Unmanned Vehicles. United States Patent, No. 10,432,729 B2.

S. J. Lemmer and D. R. Chambers. Sensor Confidence Estimation Based on Statistical Analysis. United States Patent, No. 10,235,629 B2.

S. J. Lemmer. Protective Case Adapted to Support a Smartphone. United States Patent, No. 62,297,097.