

Laura M. Stanley, Ph.D., CPE

Human Interaction Lab: www.humaninteractionlab.org
LinkedIn: <https://www.linkedin.com/in/lauramstanleyhf/>

EXPERTISE: Human-Computer/Systems Interaction, Human Factors, Human-Centered AI, Virtual/Mixed/Augmented Reality, Digital Health, Collaborative Robotics, Persuasive Technology

EMPLOYMENT

MONTANA STATE UNIVERSITY, 2019-current

Associate Professor (Tenured), Gianforte School of Computing, Bozeman, Montana
Director, Human Interaction Lab
Center for Mental Health Research & Recovery, Affiliate Faculty



CLEMSON UNIVERSITY, August 2017-current

2019-current

Adjunct Associate Professor Faculty, Industrial Engineering Department
Clinical Research Professor, Clemson University School of Health Research & Medical University of South Carolina



2017-2019

Associate Professor (Tenured), Industrial Engineering Department
Graduate Program Coordinator, Industrial Engineering Department
Faculty, School of Computing - Biomedical Data Science & Informatics, Clemson University & Medical University of South Carolina
Director of Human Interaction Lab, Industrial Engineering Department

Faculty Director Human Machine Interface, Deep Orange 10 Autonomous Vehicle, Clemson University's International Center for Automotive Research

MONTANA STATE UNIVERSITY, 2008-2017

Associate Professor (Tenured), Mechanical & Industrial Engineering Department, Bozeman, Montana, 2014-2017.

Graduate Program Coordinator, Industrial & Management Systems Engineering Program, Montana State University, Bozeman, Montana, 2014 & 2017.

Director of Human Factors Engineering Lab, Western Transportation Institute, Montana State University-College of Engineering, 2010-2017.

Affiliate Appointment: Research Scientist, Western Transportation Institute, Montana State University-College of Engineering, 2008-2017.

Assistant Professor, Mechanical & Industrial Engineering Department, Bozeman, Montana, 2008-2014.

Research Associate/Graduate Professional Fellow, Western Transportation Institute-University Transportation Centers Program, College of Engineering, Montana State University, Bozeman, Montana, 2003-2006.

NATIONAL SCIENCE FOUNDATION, 2015-2017

Program Director – Human-Centered Computing Group, Information & Intelligent Systems Division, CISE Directorate, Arlington, Virginia.

- Conducted panels primarily for Human-Centered Computing, and secondary for Cyber-Physical Systems in the CISE Directorate
- Co-coordinated Smart & Connected Communities for Division of Computer and Network Systems in CISE Directorate
- Co-coordinated Smart & Autonomous Systems solicitation for Division of Information & Intelligent



Systems in CISE Directorate

- Appointed NSF's Working Group on The Future of Graduate Education
- Coordinated ~ \$75 million in research funding decisions.

VIRGINIA TECH, 2006-2008

Research Scientist, Virginia Tech Transportation Institute, Virginia Tech, Blacksburg, Virginia
Adjunct Instructor, Industrial & Systems Engineering Department

IBM, 2002-2003

Industrial Engineer - Personal Systems Group (PSG), 1997-2000, Engineering Operations & Technical Evaluation Center/Platform Cost Engineering, Research Triangle Park, North Carolina, 2002-2003

EDUCATION

Montana State University, Bozeman, MT

Ph.D. of Engineering – Option: Industrial Engineering (emphasis Human-Computer Interaction)

Montana State University, Bozeman, MT

M.S. Industrial & Management Engineering (emphasis Human Factors Engineering)

Virginia Tech, Blacksburg, VA

B.S. Industrial & Systems Engineering

HONORS & AWARDS

- *The Norm Asbjornson College of Engineering Lloyd Berg Faculty Mentorship Award* Nominee (2023)
- *The Norm Asbjornson College of Engineering Lloyd Berg Faculty Mentorship Award* Nominee (2022)
- *Defense Science Study Group* – DARPA (Defense Advanced Research Projects Agency) – Clemson University's Presidential Nominee (2019)
- Clemson University *President's Leadership Institute* Nominee (2019)
- Personalized Manufacturing, Designing Manufacturing Systems Around Human Emotion to Give the Most and Get the Most from our People, *2nd Annual David Dornfeld Manufacturing Vision Award and Blue Sky Competition*-National Science Foundation, award: runner-up (2018).
- Society of Women Engineers *Academic Leadership for Women in Engineering* (2015)
- MSU's *College of Engineering Excellence in Research Award* Nominee (2015)
- MSU's *President's Award of Excellence in Service-Learning* Nominee (2014)
- MSU's *College of Engineering Excellence in Research Award* Nominee (2014)
- MSU's *College of Engineering Excellence in Research Award* Nominee (2013)
- MSU's *President's Award of Excellence in Service-Learning* Nominee (2013)
- National Science Foundation Travel Award for *Women in Industrial Engineering Academia* (2012)
- *Montana State University's Most Valuable Professor* Homecoming (2011)
- *NSF & Society of Women Engineers Academic Leadership for Women in Engineering* Travel Award (2011)
- *Frontiers in Education* Grant Finalist (2010)
- National Science Foundation Travel Award for *Women in Industrial Engineering Academia*, Turkey, U.S., and the Middle East (2008)

- Western Transportation Institute University Transportation Center *Outstanding Student of the Year* (2006)
- ENO *Transportation Foundation Award* (2005)
- Western Transportation Institute *Professional Advancement Fellowship* (2003-2005)
- Philip E. Rollhaus, Jr. Essay Competition *Finalist Best Student Paper Award* (2004)
- Institute of Transportation Engineers *Best Student Paper Award* Recipient (2004)
- Institute of Transportation Engineers *James Kell Award* – Sacramento, CA (2004)
- Alpha Pi Mu Industrial Engineering Honor Society
- Boeing *Academic Engineering Scholarship* (2002)
- National Science Foundation *Women in Engineering Academic Scholarship* (2001)
- USA Olympic *Collegiate Cycling Scholarship* (2001)

RESEARCH

PEER-REVIEWED PUBLICATIONS

(Italicized authors are students)

Conference Proceedings

1. *Kalatzijs, A., Rahman, S., Stanley, L., & Wittie, M. P.* Identifying Optimal Robot Speed Adaptations with Respect to Cognitive Workload Limitations Using Q-learning. *ACM Transactions on Human-Robot Interaction* (under review).
2. *Kalatzijs, A., Rahman, S., Wittie, M. & Stanley, L.* A Real-time Machine Learning and Edge Computing Framework for Real-Time Cognitive Workload Detection and Co-Robot Adaptation. *ACM Transactions on Human-Robot Interaction (THRI)* (under revision).
3. *Kalatzijs, A., Wittie, W., & Stanley, L.* A Multimodal Approach to Investigate the Role of Cognitive Workload in Human-Robot Interaction. *Proceedings of the 2023 ICMI Conference on Multimodal Interaction, 2023* (in press).
4. *Nath, N., Kalatzijs, A., & Stanley, L.* Measuring User Engagement of Virtual, Augmented, and Mixed Reality Interventions for Stress Reduction. *HCI International - Late Breaking Papers: 25th International Conference on Human-Computer Interaction, HCII 2023*. Cham: Springer (in press).
5. *Kalatzijs A. & Stanley, L.* An Augmented Reality User Interface for Pick and Place Guidance in Human-Robot Interaction. *32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN) IEEE, 2023* (in press).
6. *Kalatzijs A., Prabhu V., Stanley L., Wittie, M.* Effect of Augmented Reality User Interface on Task Performance, Cognitive Load, and Situational Awareness in Human-Robot Collaboration, *IEEE Conference on Robot and Human Interactive Communication (RO-MAN), 2023* (in press)
7. *Kalatzijs, A., Hopko, S., Mehta, R., Wittie, M. & Stanley, L.* Sex Parity in Cognitive Fatigue Model Development for Effective Human-Robot Interaction. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, (pgs. 10951-10958), 2022.

8. *Kalatzjis, A., Prabhu, V., Rahman, S., Wittie, M., & Stanley, L.* Emotions Matter: Towards Personalizing Human-System Interactions Using a Two-layer Multimodal Approach. ACM Proceedings of the International Conference on Multimodal Interaction, (pgs. 63-72), 2022.
9. *Rahman S., Kalatzjis, A., Wittie, M., Millman, D. & L. Stanley,* Checkpointing Time Prediction using Online Learning for C-RAN MEC-Serverless Computing IEEE International Conference on Omni-Layer Intelligent Systems, Annual Proceedings, (pgs. 1-6), 2022.
10. *Coziabr K., Rabideaux K., Lundberg, C., Stanley L., Perez-Litwin A., & Litwin A.,* Designing a Digital Mental Health App for Opioid Use Disorder Using UX Design Thinking, 11th International Conference, DUXU 2022, 24th HCI International Conference, HCII 2022, June 26–July 1, 2022, Proceedings, Part II.
11. *Rahman, S., Wittie, M., Elmokashfi A., Stanley L., Patterson, S., & Millman, D.* Short and Sweet Checkpoints for C-RAN MEC, IEEE CLOUD Summit, October, (pgs. 69-76), 2021
12. *Kalatzjis, A., Teotia, A., Prabhu, V. G., & Stanley, L.* A Database for Cognitive Workload Classification Using Electrocardiogram and Respiration Signal. Advances in Neuroergonomics and Cognitive Engineering, Proceedings of the AHFE 2021 Virtual Conferences on Neuroergonomics and Cognitive Engineering, Industrial Cognitive Ergonomics and Engineering Psychology, and Cognitive Computing and Internet of Things, July 25-29, 2021, USA (pp.509-516)
13. *Prabhu, V. G., Stanley, L., Morgan, R., & Shirley, B.* Comparing the Efficacy of a Video and Virtual Reality Intervention to Mitigate Surgical Pain and Anxiety. Proceedings of the International Conference on Human Interaction & Emerging Technologies, (pp. 1041-1048), 2021.
14. *Kalatzjis, A., Stanley, L., Karthikeyan, R., & Mehta, R. K.* Mental Stress Classification During a Motor Task in Older Adults Using an Artificial Neural Network. In Adjunct Proceedings of the 2020 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2020 ACM International Symposium on Wearable Computers (pp. 244-248), 2020.
15. *Prabhu, V., Stanley, L., C. Linder, and R. Morgan,* Analyzing the Efficacy of a Restorative Virtual Reality Environment using HRV Biofeedback for Pain and Anxiety Management. In the proceedings of the 2020 IEEE International Conference on Human-Machine Systems, Rome, Italy, 2020.
16. *Prabhu, V., Linder, C., Stanley, L. & Morgan, R.* Affective Computing in Virtual Reality Environments for Managing Surgical Pain and Anxiety. Proceedings of the International Conference on IEEE Artificial Intelligence and Virtual Reality, 2019.
17. *Deb, S., Carruth, D. Fuad, M., Stanley, L., & Frey D.,* Comparison of child and adult pedestrian perspectives of external features on autonomous vehicles using a virtual reality experiment. In the proceedings of the International Conference on Applied Human Factors and Ergonomics and part of Advances in Intelligent Systems and Computing, Volume 964, Springer Nature, 2019.
18. *Imtiaz, A., & Stanley, L.* Hazard Perception Differences Between Experienced and Less Experienced Drivers. Industrial and Systems Engineering Research Conference Proceedings, Nashville, TN, 2015.
19. *Schell, B., Claudio, D., Sobek, D., Stanley, L., & Ward, N.* Introducing Flexibility in an Engineering Curriculum Through Student Designed Elective Programs. 2014 ASEE Annual Conference Proceedings, (pgs. 24.808.1 - 24.808.8) June 2014.

20. *Mueller, J., Gallagher, C., Martin, T. & Stanley, L.* Driving Simulator and Scenario Effects on Driver Response. Industrial and Systems Engineering Research Conference Proceedings. Montreal, Canada, May 2014.
21. *Imtiaz, A., Mueller, J. & Stanley, L.* Driving Behavior Differences among Early Licensed Teens, Novice Teens, and Experienced Drivers in Simulator and Real World Hazards. Industrial and Systems Engineering Research Conference Proceedings. Montreal, CAN, May 2014.
22. **Mueller, J.** & Stanley, L. Emergency Medical Services: A Naturalistic Posture Evaluation While Providing Patient Care during Patient Transport. Human Factors and Ergonomics Society Annual Meeting Proceedings, San Diego, CA, October 2013.
23. *Mueller, J., Hoyt, T. & Stanley, L.* Improving Restraint Feasibility through Ambulance Layout Redesign. 7th Annual Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design Proceedings, Bolton Landing, NY, June 17-20, 2013.
24. *Mueller, J., Stanley, L., Azamian, T. & Mercer, D.* Assessing Physiological Response Validity in Simulated and Real Driving Environments. Industrial and Systems Engineering Research Conference Proceedings. San Juan, PR, May 2013.
25. *Young, K. & Stanley, L.* Driver's Attitudes and Behaviors Regarding Voice Activated Texting Technology and Distracted Driving. Proceedings of the Industrial and Systems Engineering Research Conference Proceedings, Puerto Rico, 2013.
26. *Page, L., Stanley, L., & Sharma, J.* Teen drivers' hazard perception – are we using crash-representative testing scenarios? Proceedings of the Industrial and Systems Engineering Research Conference Proceedings, Orlando, FL, 2012.
27. **Stanley, L. & Hoyt, T.** A Service Learning Case Study for the Ergonomics Classroom. Human Factors and Ergonomics Society Conference Proceedings, September 2011. Vol. 55 no. 1525-1529.
28. **Stanley, L., Page, L., & Plumb, C.** Designing for the Disabled in the Engineering Classroom, Frontiers in Education Conference/American Society of Engineering Education Proceedings, October, 2010. 978-1-4244-6262-9/10.
29. *Mueller, J. & Stanley, L.* Differences in Self-Reported versus Department of Motor Vehicle in Citation History for Teen Drivers, National Institute for Occupational Safety and Health (NIOSH)'s National Occupational Research Agenda (NORA) Proceedings, April 2009.
30. **Stanley, L. & Mueller, J.** Effectiveness of a Multistage Driver Education Program for Novice Drivers. Human Factors and Ergonomics Society Annual Meeting Proceedings, October 2009 vol. 53 no. 181348-1352.
31. *Marley, R., Stanley, L. & Muthumani, A.* Recent evolutions in the curricula of leading industrial engineering programs within the United States. Proceedings of the Annual Conference on Industrial Engineering—Theory, Applications and Practice, Las Vegas, NV, 2008, pp 330-334.
32. **Stanley, L. & Kelly, M.** Validating Transportation Safety Deployments and Highway Design Elements in Simulated Environments. Canadian Multidisciplinary Road Safety Conference Proceedings, June 2008.
33. **Stanley, L.** Human Factors in Transportation Safety. National Science Foundation Women in IE Academia Workshop, poster, U.S., Turkey, and the Middle East, July 2008.

34. **Stanley, L.**, Marley, Robert, J. & Kelly, M. Design of Interfaces for Advanced Crash Avoidance Systems. Proceedings of the Annual Conference on Industrial Engineering—Theory, Applications and Practice, November 2007, pp. 767-773.
35. Kelly, M., Lassacher, S., & **Stanley, L.** Formative Evaluation of Engineering Designs using Driver Performance in an Immersive Driving Simulator. Fourth International Driving Symposium on Human Factors in Driver Assessment Training and Vehicle Design Proceedings, July 2007, pgs. 431- 437.
36. **Stanley, L.** , Marley, R., & Kelly, M. Haptic and Auditory Cues for Roadway Departure Warnings. Human Factors and Ergonomics Society Annual Meeting Proceedings, October 2006, vol. 50 no. 222405-2408.
37. **Stanley, L.**, Kelly, M., & Lassacher, Suzanne. Driver Performance While Interacting with the 511 Travel Information System in Urban and Rural Traffic. Third International Driving Symposium on Human Factors in Driver Assessment Training and Vehicle Design Proceedings, June 2005, pages 486-492.
38. **Stanley, L.**, Carson, Jodi L., & Marley, R. Shifting the Design Paradigm to Accommodate Older Drivers at Intersections & Work Zones. Annual Regional National Occupational Research Agenda (NORA) Symposium Proceedings, April 2004.

Journals, Supplement, and Book Chapter

1. *V. G. Prabhu, Stanley L., Morgan R., and Shirley, B. Designing and developing a nature-based virtual reality with heart rate variability biofeedback for surgical anxiety and pain management: evidence from total knee arthroplasty patients, Aging & Mental Health, 2023, Impact Factor = 3.8*
2. *V. G. Prabhu, Stanley L., and Morgan R., A Biofeedback Enhanced Adaptive Virtual Reality Environment for Managing Surgical Pain and Anxiety. In International Journal of Semantic Computing Vol. 14, No. 03, pp. 375-393, 2020. Impact Factor = 1.65*
3. *Cull E., Saha, A, Stanley L., Prabhu, V. G. and Biro, J. “Analyzing the Efficacy and Design Considerations of VR Environments to Manage Anxiety & Depression in AYA Cancer Patients,” Blood, vol. 134, no. Supplement_1, pp. 3441–3441, (Abstract & Poster) Nov. 2019. Impact Factor = 22.1*
4. *Agnisarman, S., Madathil, K., & Stanley, L., A Survey of Empirical Studies on Persuasive Technologies to Promote Sustainable Living. Sustainable Computing: Informatics and Systems Journal, 2018. Impact Factor = 4.02*
5. *Manlove, K., Stanley, L., and Peck, A. A quantitative approach to assessing the efficacy of occupant protection programs: A case study from Montana, Accident Analysis and Prevention Journal, October, 2015. Impact Factor = 4.99*
6. *Page, L. & Stanley, L. Ergonomics Service-Learning Project: Implementing an Alternative Educational Method in an Industrial Engineering Undergraduate Ergonomics Course. Journal of Human Factors and Ergonomics in Manufacturing & Service Industries 00 (0) 1–13 (2014). 2014. Impact Factor = 1.27*
7. *Mueller, J. & Stanley, L. Contributors toward Ambulance Use of Lights and Sirens from Patient Records. Open Journal of Safety Science and Technology, Vol 3., No. 3, 2013, pp 63-68. Impact Factor = 1.30*

8. Antin, J., Lockhart, T., **Stanley, L.** & Guo, F. Comparing the Impairment Profiles of Older Drivers and Non-Drivers. *Journal of Safety Science*, Volume 50, Issue 2, February 2012, pp 333-341. *Impact Factor = 4.87*
 9. *Mueller, J., L. Stanley* and *Manlove, K.* “Multi-Stage Novice Defensive Driver Training Program: Does It Create Overconfidence?,” *Open Journal of Safety Science and Technology*, Vol. 2 No. 4, 2012, pp. 133-139. Doi: 10.4236/ojsst.2012.24017. *Impact Factor = 1.30*
 10. McGowen, P., & **Stanley, L.** An Alternative Methodology for Determining Gap Acceptance, *Journal of Transportation Engineering*, doi:10.1061/(ASCE)TE.1943-5436.0000358. 2011. *Impact Factor = 1.60*
 11. **Stanley, L.**, Angell, L., Perez, M., Deering, R., Llaneras, R, and Green, C. Modeling/Analysis of Pedestrian Back-Over Crashes from NHTSA’s SCI Database. *SAE International Journal of Passenger Cars– Mechanical Systems*, Volume 4, pgs 562-571, 2011. *Impact Factor = 1.10*
 12. Sanddal T., Sanddal N., Ward N. & **Stanley L.** Ambulance Crash Characteristics in the U.S. Defined by the Popular Press: A Retrospective Analysis. *Emergency Medicine International*, vol. 2010, Article ID 525979, 7 pages, 2010.
 13. **Stanley, L.** and Ward, N. An Evaluation of Cooperative Avoidance Warning System. *International Journal of Vehicle Safety*, Volume 5, Number 1, 2010, pages 86-99. *Impact Factor = .83*
 14. Antin, J., **Stanley, L.**, and Cicaro, K. Conventional vs. Moving-Map Navigation Methods: Efficiency and Safety Evaluation. *Transportation Research Record*, No 2138, 34-41, 2009. *Impact Factor = 1.03*
 15. **Stanley, L.**, Hardy, A., and Lassacher S. Driver Responses to Enhanced Wildlife Advisories in a Simulated Environment. *Transportation Research Record: Journal of the Transportation Research Board*, 2006, No. 1980, pp 126-133. *Impact Factor = 3.69*
 16. **Stanley, L.**, Marley, R. Whole Body Vibrations on the Low Back Using a Suspension Versus Non-Suspension Seat Post During Off-Road Cycling. *Medicine and Science in Sports and Exercise Journal*, Volume 38(5), May 2006. *Impact Factor = 5.41*
- B1. *Prabhu, V.G & Stanley, L.* Book Chapter on *Realizing Complex Integrated Systems*. Volume 4: Chapter 10 - Human System Interaction - Interface Design (in progress, in collaboration with Dr. John Sheppard).

Posters/Abstracts

1. *Kalatzis A., Teotia A., Stanley L., & Prabhu V.* Affective State Classification in Virtual Reality Environments Using Physiological Signals. *IEEE International Conference on Artificial Intelligence and Virtual Reality*. (Abstract & Poster), 2021.
2. *Prabhu, V. G., Stanley, L., Newcomb, R., Morgan, R., & Shirley, B.* Evaluating the Efficacy of Video and Virtual Reality in Mitigating Pain and Anxiety among Total Knee Arthroplasty Patients. In *Proceedings of Annual American Association of Hip and Knee Surgeons (AAHKS)*, (Abstract & Poster), 2021.
3. *Wetherbee, M., & Stanley, L.* Creating Contextual Awareness for Human-Robot Interaction, *National Council on Undergraduate Research*, (Abstract & Presentation), 2021.

4. **Stanley, L.** & Coziahr, K., 2021 National Science Foundation: " Smart Health in the AI and COVID Era Virtual Workshop", SCH: INT: Collaborative Research: An intelligent Pervasive Augmented reaLity therapy (iPAL) for Opioid Use Disorder and Recovery, (Poster), 2021.
5. *Rahman, S., Wittie, M., Stanley, L., & Patterson, S.* MicroLambda Packetized Computation for 5G Mobile Edge Computing. In the proceedings of USEnix, USENIX Association HotEdge 20 3rd USENIX Workshop on Hot Topics in Edge Computing, (Abstract), 2020.
6. *Biro, J., Linder, C., & Stanley, L.* Applications of Virtual Environments in Human Factors Research and Practice: Utilizing Virtual Reality and Biofeedback as an Adjunct Treatment in Addressing the Opioid Crisis. Human Factors & Ergonomics Society Annual Conference, (Abstract and Demo), Washington, DC., October 2019.
7. *Hines, A., Biro, J., & Stanley, L.* Analyzing the Mood-Improvement Effects of Exposure to Virtual Reality Dogs, National Conference on Undergraduate Research, Kennesaw, Georgia, April 10-13, (Poster), 2019.
8. *Rickert, A., Walter, T., Linder, C., & Stanley, L.* Examination of Presence in VR Through Haptically Delivered Thermal Stimuli, National Conference on Undergraduate Research, Kennesaw, Georgia, April 10-13, (Poster), 2019.
9. *Prabhu, V. G. & Stanley, L.* Analyzing the Efficacy of VR to Mitigate Acute Pain and Anxiety in Operative Settings, Institute of Industrial and Systems Engineering Research Conference, (Poster & Presentation) Orlando, FL, 2019.
10. *Barry, J., Schiff, S., Biro, J., Ghalayani, M., & Stanley, L.* Personas to Improve the Development of Healthcare Focused Virtual Reality Applications, Southeastern Human Factors Applied Research Conference, (Poster), 2018.
11. *Prabhu, V. G., Shvorin, D., Stanley, L., & Pirrallo, R.* A Comparative Study Between Resident and Attending Physicians in the Emergency Department to Analyze Stress and Burnout, Southeastern Human Factors Applied Research Conference (Poster), 2018.
12. *Prabhu, V. G., Shvorin, D., Stanley, L., & Coldebella, R.* Physician Distraction in the Emergency Department, Southeastern Human Factors Applied Research Conference, (Poster), 2018.
13. *Biro, J. & Stanley, L.* Evaluating the Efficacy of VR for Managing the Pain and Anxiety of AYA Cancer Patients, Southeastern Human Factors Applied Research Conference, (Poster), 2018.
14. *Ghalayani, M., Schiff, S. & Stanley, L.* The Use of VR for Acute Pain Management in Operative Care Environments, Southeastern Human Factors Applied Research Conference, (Poster), 2018.
15. *Mears, L., Niaki, F., Muth, R., & Stanley, L.* Personalized Manufacturing: Sociology and Psychology as Fundamental Design Elements for Future Advanced Production Systems. David Dornfeld Manufacturing Vision Award and Blue Sky Competition (NSF sponsored), (Abstract), 2018.
16. **Stanley, L.** Fatigue Monitoring and Management across Different Industries: Fatigue Monitoring Technologies for Detecting Driver Drowsiness. Human Factors & Ergonomics Society Annual Conference, (Abstract and Panel Presentation), Washington, DC., September, 2016.
17. *Mueller, J., & Stanley, L.* Multivariate Analysis of Driver Responses in Simulator and On-Road, Industrial and Systems Engineering Research Conference, (Poster), Anaheim, CA, 2016.

18. *Young, K., & Stanley, L.* Teen Driving Attitudinal and Behavioral Differences Across Two States, Industrial and Systems Engineering Research Conference Proceedings, (Poster), Anaheim, CA, 2016.
19. *Imtiaz, A., & Stanley, L.* On-Road Study Assessing the Effect of Age and Experience on Hazard Perception, Industrial and Systems Engineering Research Conference, (Poster), Anaheim, CA, 2016.
20. **Stanley, L & Young, K.** Validity Assessment of Virtual Reality through Geo-Specific Scenarios. Applied Ergonomics Conference, (Poster), March 21-24, 2016.
21. **Stanley, L.** Addressing the Need for Effective Communications across the Engineering Curricula-Distinguished Speakers Series at the International Conference on Operations Excellence & Service Engineering, (Abstract and Presentation), Orlando, FL, September 10-11, 2015.
22. **Stanley, L.** A Peer-to-Peer Public Health Intervention-A Case Study in Transportation Safety. International Conference on Operations Excellence & Service Engineering, (Abstract and Presentation), Orlando, FL, September 10-11, 2015.
23. *Young, K. & Stanley, L.,* Human Factors Design of a Low-Cost Adjustable Wheel Locking System for a Child's Wheelchair, 6th International Conference on Applied Human Factors and Ergonomics, (Poster), Las Vegas, USA July 26-30, 2015.
24. *Mueller, J., Young, K., & Stanley, L.* Validating a Driving Simulator: Effect of Increased Mental Effort While Driving on Real Roads and in Simulators. Transportation Research Board 2015 Annual Meeting. Transportation Research Board: (Abstract and Poster), Washington, D.C., January 2015.
25. *Mueller, J., Young, K., & Stanley, L.* Driver Characteristics: Simulated and On-Road Driver Stopping Behaviors. Transportation Research Board 2015 Annual Meeting. Transportation Research Board: (Abstract and Poster), Washington, D.C., January 2015.
26. *Imtiaz, A. & Stanley, L.* Characterizing Eye Movement Behavior of Teen Drivers while Following a Left Turning Truck at Stop Controlled Intersection. 12th Annual Regional National Occupational Research Agenda Symposium Proceedings. (Abstract and Presentation), Salt Lake City, UT. April 2014.
27. **Stanley, L., Manlove K., Peck, A.** Evaluating the Effectiveness of Occupant Protection Programs. Conference on Statistical Practice Proceedings, (Abstract & Presentation), Tampa, FL. February 20-22, 2014.
28. **Stanley, L.** Complexity of Instrumentation in Assessing Virtual vs Real World Hazard Perception Environments. Proceedings 1st Annual International Conference on Industrial & Systems Engineering, (Abstract and Presentation), Athens, Greece, June 24-27, 2013.
29. *Ward, N., Durkee, S., & Stanley, L.* An Objective Evaluation of an Education-Based Distracted and Drowsy Driving Intervention for Rural Teen Drivers. 5th International Conference on Traffic and Transport Psychology, (Abstract), Groningen, The Netherlands, August 29 – 31, 2012.
30. *Young, K., & Stanley, L.* Voice Activated Texting-Is It Safer than Conventional Texting While Driving? National Council for Undergraduate Research Annual Conference Proceedings, Ogden, (Abstract and Presentation), Utah 2012.

31. **Stanley, L.**, Angell, L., Perez, M., Deering, R., Llaneras, R., & Green, C. Modeling/Analysis of Pedestrian Back-Over Crashes from NHTSA's SCI Database. Society of Automotive Engineers International Proceedings (Abstract and Presentation).
32. *Hoyt, T., Stanley, L., & Sanddal, N.* Rural EMS Worker Restraint Usage and Feasibility in Emergency Response Vehicles, *Annals of Advances in Automotive Medicine*, (Poster), 2010.
33. *Atkins, P. & Stanley, L.* Design and Evaluation of a Collision Avoidance System for Cyclists. The IMAGE Society Annual Conference Proceedings, (Poster and Presentation), June 2009.
34. Antin, J. F., Lockhart, T., Shi, W., **Stanley, L.**, Haynes, C., Parajit, P., & Guo, F. Why do older drivers give up their keys? The role of functional impairment. International Conference on Traffic & Transport Psychology, Washington, D.C. (Abstract and Presentation), 2008.
35. **Stanley, L.**, Hardy, A., & Lassacher, S. Enhanced Wildlife Warnings as a Potential Means of Reducing Wildlife-Vehicle Collision. National Rural ITS Conference Proceedings, (Abstract and Presentation), August 2006.
36. **Stanley, L.** & Philip, D. Development of a Web-Based Household Travel Survey. Institute of Transportation Engineers District 6 Meeting Proceedings, (Presentation), July 2005.
37. **Stanley, L.** & Sherick, H., Assessing Opinions, Experiences, and Perspectives of Female Engineers Nationwide Via a Web-Based Questionnaire. Women in Engineering Programs & Advocates Networks (WEPAN) Conference, (Abstract), June 2004.
38. **Stanley, L.**, Carson, J., & Marley, R. Accommodating Older Drivers. Institute of Transportation Engineers Intermountain Meeting Proceedings, (Abstract), May 2004.
39. *Mueller, J., Marley, R. & Stanley, L.* Whole-Body Vibration in Emergency Medical Transportation, National Institute for Occupational Safety and Health (NIOSH)'s National Occupational Research Agenda (NORA) Proceedings, (Abstract), April 2013.

INVITED PRESENTATIONS

Mixed Reality and Artificial Intelligence in Collaborative Robotics – AHFE Conference, Nice, France, planned July 23, 2024.

Immersive Reality, AI, and Wearables for Mental Health. Center for Counseling & Psychological Services, Montana State University, December, 2023.

An Exploration of Digital Health's Next Frontier: Immersive Reality, Emotional AI, and Collaborative Robotics in Mental Health, Pain Management, and Addiction, University of Utah, Department of Biomedical Informatics Seminar Series, October, 2023.

NSF Workshop on Industry 4.0 and Collaborative Robotics - National Science Foundation's Future of Work at the Human-Technology Frontier (FW-HTF) Big Ideas Program, Texas A&M University and Society of Manufacturing Engineers, July 2023.

NSF SBIR Funding Panel Proposal Workshop – Montana State University's TechLink, April 2023.

Non-Academic Funding Strategies Panel – Montana State University Research Celebration, January 2023.

Sharing Solutions Panel on Opioid Use Disorder – U.S. Chamber of Commerce Sharing Solutions Broadcast, April 20, 2021.

IISE New Faculty Colloquium Presenter/Panelist Invitation - “Research Program Funding – Strategies and proposal development”, May 2021

NSF: “*Smart Health in the AI and COVID Era Virtual Workshop*”, An intelligent Pervasive Augmented reality therapy (iPAL) for Opioid Use Disorder and Recovery, March 2021

Mental Health Apps: The Present and the Future, National Alliance on Mental Health, virtually held, November 24, 2020.

NSF Proposal Writing Workshop Targeting Tribal College Faculty, National Council on Undergraduate Research Annual Conference, Montana State University, Bozeman, MT, 2020 (not held due to COVID).

NSF Graduate Research Fellowship Program and Sloan Scholars Student Workshop, National Council on Undergraduate Research Annual Conference, Montana State University, Bozeman, MT, 2020 (not held due to COVID).

Virtual Reality in the Classroom: Teaching and Resources, MSU Library, November 19, 2019.

Funding Agency Experts Roundtable, MSU Center for Faculty Excellence, Bozeman, MT, September 20, 2019.

Immersive Technologies for Addiction, The Center for Addiction Research Collaborative, Prisma Health, Greenville, SC, May 15, 2019.

Talking to Your Program Official, MSU Center for Faculty Excellence-New Faculty Writing Boot-Camp Series, Bozeman, MT, September, 2019.

TEDx Talk, *Transforming Your Mental Health Journey using Immersive Technologies*, Bozeman, MT, April 13, 2019.

The Role Immersive Technologies May Play as Primary or Adjunct Technique for Pain and Anxiety. Featured Speaker, Prisma Health, Greenville, SC, February, 2019.

Know Your Agency (NSF), University of Colorado-Colorado Springs, Office of the Vice Chancellor for Research, April, 2019.

Positioning Yourself to be Competitive: Application Strategies and Establishing a Relationship with NSF and Program Managers, NSF CAREER Academy: Clemson University’s Office of Research Development, January, 2019.

The Future of Immersive Technologies in Healthcare. University of Buffalo-Distinguished Speaker Series, Buffalo, NY, December, 2018

Funding your Graduate School, STEM All in IN, Clemson University, October 2018.

Immersive Technologies in Managing Pain and Anxiety. Texas A&M-Distinguished Speaker Series, College Station, TX, October, 2018

Keynote: *Positioning Yourself for Life Beyond the PostDoc*, National Post Doc Association Annual Meeting - The Office of the Vice President for Research, Clemson University, September 2018.

Navigating the Academic Job Search, Clemson University’s 360 Program, September, 2018.

Personalized Manufacturing-Designing Manufacturing Systems around Human Emotion to Give the Most and Get the Most from our People, Blue Sky Competition David Dornfeld Manufacturing Vision Award, sponsored by NSF, SME, ASME, and NAMRI. Team: Laine Mears, June, 2018.

Funding at the National Science Foundation, Office of Research Development, Clemson University, Clemson, SC, October, 2017.

Tips on Applying for Your CAREER at the National Science Foundation, Office of Research Development-CAREER Workshop, Clemson University, Clemson, SC, October, 2017.

Demystifying the Funding Process at the National Science Foundation, MSU Center for Faculty Excellence, Bozeman, MT, April, 2017.

Tips on Developing and Writing Grant Applications, New Faculty Forum -College of Engineering, Montana State University, April, 2017.

Trends in Service Systems Research: Overview of Opportunities for the Human-Technology Frontier Panel, INFORMS Annual Conference, Nashville, November, 2016.

Communicating with Your Program Official, NSF ADVANCE Project TRACS Grant Writing Workshop, Bozeman, MT, October 2016.

Fatigue Monitoring and Management across Different Industries Panel, Human Factors & Ergonomics Society Annual Conference, Washington, DC., September, 2016.

Emerging Frontiers in Industrial Engineering Panel. Industrial and Systems Engineering Research Conference Proceedings, Anaheim, CA, May 2016.

Visual Search Strategies in Low vs. High Fidelity Environments. Enhancing Driving Conference, Gainesville, FL, November 2105.

How to Talk to NSF Program Officers, NSF ADVANCE Project TRACS Grant Writing Boot Camp, Bozeman, MT, October 2015.

Assessing the Peer-to-Peer Approach in Traffic Safety, Montana Department of Transportation State Highway Traffic Safety Assessment in conjunction with the National Highway Traffic Safety Administration, Helena, MT, December 2014

A Peer-to-Peer Traffic Safety Campaign. Montana Traffic Education Association Annual Conference, Bozeman, MT, April 2014.

Evaluation of Montana's Occupant Protection Programs, Montana Department of Transportation State Highway Traffic Safety Assessment in conjunction with the National Highway Traffic Safety Administration, Helena, MT, December 2014

Teen Driver Safety Research, Texas Transportation Institute Conference on Transportation Safety, Austin, TX, March 2011.

What's not Normal? Changing the Design Paradigm of Our Engineering Students through Taking a Human-Centered Design Approach. Distinctive Dialogues. Bozeman, MT, April, 2011.

Naturalistic Safety Evaluation of Medics During Rural Emergency Response, EMS Transportation Safety Webinar, Transportation Research Board Annual Meeting, Washington, DC, January 2011.

Spotlight on Turkey's Rise of Women in Engineering: What Can We Learn? Montana State University International Education Week, Bozeman, MT, November 2010.

Effectiveness of a Multi-Stage Approach to Novice Driver Safety. American Driver and Traffic Safety Association Annual Conference, St. Louis, MO, July 2010.

Risk-Seeking Behaviors and EMS Crash Risk in Rural Ambulance Drivers. EMS Safety Summit, Loveland, CO, October 2009.

EMS Crash Risk in Rural Ambulance Drivers Panel Presenter. EMS Safety Summit, Loveland, CO, October 2009.

Teen Driver Education Research. Montana Traffic Education Association Conference, Great Falls, MT, April 2009.
Research Tools for Traffic Safety: Overview and integration of research tools. World Usability Day, Bozeman, MT, November 2008.

National Science Foundation Women in Industrial Engineering Academia – Panel Expert on Conducting Research. National Science Foundation Women in IE Academia Workshop, Ankara, Turkey, July 2008.

NSF's Women in Industrial Engineering Academia - Human Factors in Transportation Safety. National Science Foundation Women in IE Academia Workshop, Ankara, Turkey, July 2008.

CONFERENCE/SEMINAR PRESENTATIONS

Immersive Technology for Mental Health Interventions. 14th AHFE International Conference on Human Factors in Design, Engineering, and Computing for All -Honolulu, Hawaii, USA, December 2023.

Transforming Mental Health through Immersive Technology, Google Developers Conference Women TechMakers, 2021.

Affective Computing in Virtual Reality Environments for Managing Surgical Pain and Anxiety, 2nd International Conference on IEEE Artificial Intelligence and Virtual Reality Conference, San Deigo, CA, 2019.

The Use of Immersive Technologies and Affective Computing Techniques in Healthcare & Collaborative Robotics, Seminar Series for Gianforte School of Computing, Montana State University, Bozeman, MT, 2019.

Multivariate Analysis of Driver Responses in Simulator and On-Road, Industrial and Systems Engineering Research Conference, Anaheim, CA, 2016.

Teen Driving Attitudinal and Behavioral Differences Across Two States, Industrial and Systems Engineering Research Conference, Anaheim, CA, 2016, poster.

On-Road Study Assessing the Effect of Age and Experience on Hazard Perception, Industrial and Systems Engineering Research Conference, Anaheim, CA, 2016, poster.

Validity Assessment of Virtual Reality through Geo-Specific Scenarios. Applied Ergonomics Conference, March 21-24, 2016, poster.

Distinguished Speakers Series - Addressing the Need for Effective Communications across the Engineering Curricula at the International Conference on Operations Excellence & Service Engineering, Orlando, FL, September 10-11, 2015.

- A Peer-to-Peer Public Health Intervention-A Case Study in Transportation Safety.* International Conference on Operations Excellence & Service Engineering, Orlando, FL, September 10-11, 2015.
- Complexity of Instrumentation in Assessing Virtual vs Real World Hazard Perception Environments.* Annual International Conference on Industrial & Systems Engineering, Athens, Greece, June 24-27, 2013.
- A Service Learning Case Study for the Ergonomics Classroom.* Human Factors and Ergonomics Society Conference, Las Vegas, NV, September 2011.
- Designing for the Disabled in the Engineering Classroom.* Frontiers in Education Conference. Washington, D.C., October 2010.
- Human Factors Methods in Transportation Safety.* Institute of Industrial Engineers Annual Conference. Cancun, Mexico, June 2010.
- Effectiveness of a Multistage Driver Education Program for Novice Drivers.* Human Factors and Ergonomics Society Annual Meeting, San Antonio, TX, October 2009.
- Blackbox Technologies in Transportation Safety.* National Rural Intelligent Transportation Systems Conference, Seaside, OR, August 2009.
- Augmented Speed Enforcement.* National Rural Intelligent Transportation Systems Conference, Seaside, OR, August 2009.
- The Impact of Montana's Changing Demographics on Transportation.* Montana's 2008 Joint Engineers Conference, Helena, MT, November 2008.
- Psychophysical Methods for Studying Interface Designs in Automotive Crash Avoidance Technologies.* 14th Annual International Conference on Industrial Engineering Theory, Applications & Practice, Las Vegas, Nevada, September 2008.
- Validating Transportation Safety Deployments and Highway Design Elements in Simulated Environments.* Canadian Multidisciplinary Road Safety Conference Proceedings, British Columbia, Canada, June 2008.
- Design of Interfaces for Advanced Crash Avoidance Systems.* The 13th Annual International Conference on Industrial Engineering Theory, Applications, & Practice, Mexico, November 2007.
- Commercial Motor Vehicle Driving Simulator Validation Study Phase2 Peer Review.* United States Department of Transportation (USDOT) Headquarters, Washington, D.C., December 2006.
- Commercial Motor Vehicle Driving Simulator Validation.* Federal Motor Carrier Administration (FMCSA) Headquarters, Washington, D.C., November 2006.
- Haptic and Auditory Cues for Roadway Departure Warning.* Human Factors and Ergonomics Society Annual Meeting, San Francisco, CA, October 2006.
- Whole Body Vibrations on the Low Back Using a Suspension Versus Non-Suspension Seat Post During Off-Road Cycling.* American College of Sports Medicine Annual Meeting, Denver, CO, June 2006.
- Driver Responses to Enhanced Wildlife Advisories in a Simulated Environment.* Transportation Research Board Annual Meeting, Washington D.C., January 2006.
- Integrating Land Use and Transportation Planning at a Regional Scale: The Las Vegas Example.* ITE Nevada Chapter Annual Meeting, Las Vegas, NV, October 2005

Development of a Web-Based Household Travel Survey. Institute of Transportation Engineers District 6 Meeting, Kalispell, MT July 2005.

Driver Performance While Interacting with the 511 Travel Information System in Urban and Rural Traffic. Third International Driving Symposium on Human Factors in Driver Assessment Training and Vehicle Design, Rockport, MA, June 2005.

Assessing Opinions, Experiences, and Perspectives of Female Engineers Nationwide Via a Web-Based Questionnaire. Women in Engineering Programs & Advocates Networks (WEPAN) Conference Proceedings, Albuquerque, NM, June 2004.

Accommodating Older Drivers-Best Student Paper. Institute of Transportation Engineers Intermountain Meeting. Jackson, WY. May 2004.

Shifting the Design Paradigm to Accommodate Older Drivers at Intersections & Work Zones. Annual Regional National Occupational Research Agenda Symposium. Salt Lake City, UT. April 2004.

FUNDED PROJECT EXPERIENCE

1. **Principal Investigator:** *Virtual Reality Training Development for Law Enforcement Program.* Co-PIs: Adam Thuen, (Intellectual Patriots), Lisa Perry (Montana State University-Native American Studies), Eric Paulson (Gallatin County Sheriff's Office), in prep. **\$4,000,000**
2. **Co-Principal Investigator:** NIH SBIR Phase 2: *An Artificial Intelligence-Inspired Human-Centered Computing Application for Detecting and Managing Respiratory Diseases.* PI: Apostolos Kalatzis (Cleveland State University), Co-PI: Vishnu Prabhu (University of North Carolina), in prep. **\$1,972,828**
3. **Co-Principal Investigator** – Murdock Charitable Trust Foundation - *BioReD Hub- Interdisciplinary Biomedical Hub* bringing together engineering, nursing, and computer science. 2023-2025. PI: Bernadette McCrory (Montana State University, Industrial Engineering Program.), Co-PI: Elizabeth Johnson (Montana State University, College of Nursing) **\$400,000**
4. **Principal Investigator:** *Collaborative Research: An intelligent Pervasive Augmented realLity therapy (iPAL) for Opioid Use Disorder and Recovery,* Smart & Connected Health: National Science Foundation and National Institutes of Health, 2020-2024, Co-PIs: Ranjana Mehta (Texas A&M) & Alain Litwin (Prisma Health & Clemson University). **\$1,200,000**
5. **Principal Investigator:** *Human-Centered Computing (HCC) MEDIUM: Augmenting Human Cognition with Collaborative Robots (AMELLA: AugMENTed Learning InnovAtion)* National Science Foundation, 2019-2024, Co-PIs: Ranjana Mehta (Texas A&M), Mike Wittie (Montana State University), Kapil Madathil (Clemson University) **\$1,200,000**
6. **Principal Investigator:** Epic Games Mega Award – “Digitally Immersive Mental Health Experience for Anxiety Disorders”, 2020-2021. **\$75,000**
7. **Principal Investigator:** Montana Department of Commerce Phase II: *IntelliHealth: An Intelligent Human-AI Collaborative System for Chronic Respiratory* **\$30,000**

Disease Management. 2023-2024. Co-PI: Apostolos Kalatzis (MSU), Co-PI: Vishnu Prabhu (University of North Carolina).

8. **Co-Principal Investigator:** NSF SBIR Phase I: *An Artificial Intelligence-Inspired Computing Application for Detecting the Early Onset of Pneumonia* (COVID-19). PI: Apostolos Kalatzis (MSU), Co-PI: Vishnu Prabhu (University of North Carolina), 2021-2022. **\$256,000**
9. **Principal Investigator:** Montana Department of Commerce Phase I: *IntelligHealth: An Intelligent Human-AI Collaborative System for Chronic Respiratory Disease Management*. 2021-2022. Co-PIs: Apostolos Kalatzis (MSU), Co-PI: Vishnu Prabhu (University of North Carolina). **\$30,000**
10. **Principal Investigator:** Equipment Fee Allocation Committee Award: *Virtual and Mixed Reality Teaching Lab*, Norm Asbjornson College of Engineering (2021), Montana State University **\$14,000**
11. **Co-Principal Investigator:** NRT-HDR: *Technology-Human Integrated Knowledge Education and Research (THINKER)*, National Science Foundation Research Traineeship Harnessing the Data Revolution, 2018-2020, PI: Laine Mears (Clemson University). **\$3,000,000**
12. **Senior Investigator:** MRI: *Development of Enodia: A highly reconfigurable, HPC-backed instrument enabling multifaceted interactive visualization*, National Science Foundation, 2018-2023, PI: Brygg Ullmer (Clemson University). **\$499,375**
13. **Principal Investigator:** *Efficacy of Virtual Reality for Operative Pain and Anxiety Management*, Clemson University's Creative Research Inquiry, 2018-2019. **\$4,000**
14. **Principal Investigator:** RELIEVE (*viRtual rEaLity IntErVEntion*) – *An Immersive Technology Intervention for Managing Acute Pain and Anxiety* SCRA-Academia Collaboration Team (SACT), 2018-2019, Co-PI: Robert Morgan, MD. (Prisma Health). **\$100,000**
15. **Principal Investigator:** *Efficacy of Virtual Reality for Operative Pain and Anxiety Management*, Greenville Health System-Health Science Center 2018-2019, Co-PI: Robert Morgan, MD. (Prisma Health) **\$20,000**
16. **Principal Investigator:** *A Longitudinal Study to Assess the Efficacy of Virtual Reality for Pain and Anxiety Management in AYA Cancer Patients*, Greenville Health System-Health Science Center, 2018-2019, Co-PI: Elizabeth Cull, MD (Prisma Health) **\$14,000**
17. **Principal Investigator:** *Modeling the Validity and Transfer of Eye-scanning Patterns for Hazard Perception from Virtual Reality Training Environments to Reality*, National Science Foundation, Cyber-Human Systems, CISE Directorate, 2011-2015, 4W3706, Co-PIs: Nic Ward, Erwin Boer **\$499,610**

18. **Principal Investigator:** *Assessing the Effectiveness of Montana's Occupant Protection Programs*, Montana Department of Transportation, 2013-2015, 4W4354, Co-PI: Kezia Manlove, **\$91,249**

19. **Principal Investigator:** *Engineering Communications Resource Toolkit for the College of Engineering*, Montana State University-Faculty Excellence Award, 2015. **\$4,000**

20. **Principal Investigator:** *Systems Thinking in Sustainability Course Development*, Montana State University-Faculty Excellence Award, 2014. **\$4,000**

21. **Principal Investigator:** *A Peer-to-Peer Traffic Safety Campaign*, Montana Department of Transportation, 2012-2014,4W3968, **\$134,598**

22. **Principal Investigator:** *Science & Engineering Integrated Research Facility for Human Factors in Rural Traffic Safety* Murdock Charitable Trust, 2009-2014, 4W2462, Co-PI: Nic Ward. **\$535,000**

23. **Principal Investigator:** *Naturalistic Safety Evaluation of the Medic's Work Environment*, Federal Highway Safety Administration, October 2009-Dec 2011,4W2879. **\$58,980**

24. **Principal Investigator:** *Human Factors Engineering Research Equipment*, U.S. Federal Highway Administration, February 2009-July 2012, 4W2495. **\$101,186**

25. **Project Advisor:** *Voice-Activate Texting – Is it Safe?* – Research Experience for Undergraduates. Federal Highway Administration US Department of Transportation. October 2010 – May 2011, 4W1365. **\$15,000**

26. **Principal Investigator:** *An Experiment in Integrating an Engineering Communications Toolkit into the Industrial Engineering Curricula*, Engineering Information Foundation, December 2009- January 2011, 4W2913, **\$25,598**

27. **Principal Investigator:** *Effects of Defensive Vehicle Handling Training on Novice Driver Safety*, Montana Department of Transportation, FHWA, August 2006-October 2010, 4W0171, 4W0434, 4W1066 **\$220,000**

28. **Principal Investigator:** *Haptic and Auditory Interfaces as a Collision Avoidance Technique during Run-Off-Road and Head-On Collisions and Driver Perception of Modalities*. Research and Innovative Technology Administration, US Department Transportation, FHWA, July 2004 – May 2006, 4W0767, Co-PI: Mike Kelly, **\$63,600**

29. **Co-Principal Investigator:** *An Objective Evaluation of an Education-Based Distracted and Drowsy Driving Intervention for Teen Drivers in Rural America*, National Highway Traffic Safety Administration (NHTSA), August 2008-January 2011, 4W2928, 4W2461, PI: Nic Ward **\$200,000**

30. **Project Advisor:** *The Design and Evaluation of a Pedestrian/Cyclist Sensing Device Phase 2* – Research Experience for Undergraduates. Federal Highway Administration US Department of Transportation. PI: Jerry Stephens October 2008 – May 2009, 4W1365-URE **\$15,000**

31. **Task Manager:** *Rural EMS Driver Safety Research Program: Phase I Feasibility Study.* August 2008 – May 2009, \$110,000, 4W2008, **\$110,000**
32. **Project Manager:** *Naturalistic Evaluation of an In-vehicle Navigation System,* in partnership with TNO Transportation Research Institute, March 2008-July 2008. **\$200,000**
33. **Project Manager:** *Older Driver Naturalistic Observation,* Federal Highway Administration and U.S. Department of Transportation, August 2007-August 2009. **\$280,000**
34. **Task Manager:** *Cooperative Agreement for Advanced Crash Avoidance Technologies Program,* National Highway Traffic Safety Administration (NHTSA) in Response to Cooperative Agreement DTNH22-06-H-00011, August 2006-2009. **\$4,000,000**
35. **Project Manager:** *Effects of Visual Alert Location and Gaze Location on Driver's Ability to Respond to Forward Scene Changes,* General Motors Structure and Safety Integration Center, February 2007-September 2007, \$158,000. **\$158,000**
36. **Task Manager:** *Commercial Motor Vehicle (CMV) Driving Simulator Validation Study (SimVal): Phase2, Interim Report Work Plan.* Federal Motor Carrier Safety Administration, National Highway Traffic and Safety Administration, August 2006-2010. **\$1,800,000**
37. **Task Manager:** *Development and Assessment of a Driver Fatigue Monitoring System.* Federal Motor Carrier Safety Administration: National Highway Traffic and Safety Administration, June 2006-October 2008. **\$300,000**
38. **Project Manager:** *Safety Evaluation of an In-Vehicle Communication Device for Commercial Trucks,* DLA Piper Inc. – propriety work, October 2006 – December 2006. **\$150,000**
39. **Task Manager Phase II:** *511 Virginia Statewide Evaluation.* For Virginia Department of Transportation, June 2006 – September 2006. **\$300,000**
40. **Project Manager:** *Simulation Phase: Bozeman Pass Channelization ITS Project.* Montana Department of Transportation.,2004-2005. **\$208,000**
41. **Project Manager:** *Driver Performance while using a Cellular Telephone Interface to a Traveler Information System.* For Research and Innovative Technology Administration, United States Department of Transportation, 2003-2004 **\$25,000**

PUBLIC MEDIA

- MSU expanding biomedical research capabilities with grant from Murdock Trust (April 28, 2023) – [MSU News Service](#)
- Computer science gives MSU undergraduate room to run in unexpected directions (July 20, 2022)– [MSU News Service](#)

- MSU graduate student on the frontier of adapting robots to work better with humans (March 30, 2022) – [MSU News Service](#)
- Montana State research expenditures hit all-time high (September 1, 2021) - [MSU News Service](#)
- Researchers use computer science to treat opioid addiction (October 23, 2020) - [NBC](#)
- MSU researchers harness computer science for treating opioid addiction (October 19, 2020) – [Montana State University](#)
- MSU researchers win \$1.2 million grant to improve worker-robot interaction (January 1, 2019) – KULR NBC Billing News
- MSU researchers win \$1.2 million grant to improve worker-robot interaction (December 27, 2019) – [Bozeman Daily Chronicle](#)
- MSU researchers win \$1.2 million grant to improve worker-robot interaction (December 5, 2019) – [Montana State University](#)
- Transforming Your Mental Health Journey using Immersive Technologies - [TEDx - Theme: Untapped](#) (April 13, 2019)
- Clemson University -School of Health Researcher [Faculty Scholars](#) - 2019
- Virtual reality therapy has real-life benefits for some mental disorders – [Science News](#) (November 10, 2018)
- New \$3-million program could help close skills gap in advanced manufacturing (September 10, 2018) – [Clemson University](#)
- Clemson Announces New Advanced Manufacturing Program (September 12, 2018) – [Greenville Business Magazine](#)
- Clemon program to address manufacturing skills gap (September 10, 2018)- [GSA Business Report](#)
- Relieving Pain and Anxiety Virtually (February 26, 2018) – [Clemson University](#)
- 2017's Greenest States (April 18, 2017) – [WalletHub](#)
- Cover story on Virtual Reality in 30 years (Fall Quarterly, 2016) – [Distinctly Montana](#)
- Best and Worst States for Teen Drivers (June 11, 2015) – [WalletHub](#)
- MSU Receives Prestigious Fellowship (June 12, 2014)- [MSU News Service](#)
- Growth Opportunity in MSU's College of Engineering (December 6, 2013) – [Bozeman Daily Chronicle](#).
- Safer Roads: A Montana State University study focuses on the training of young drivers. Montana State University News Service. Video <http://vimeo.com/63782471>.
- MSU Study Focuses on Young Drivers (May 6, 2013). [Bozeman Daily Chronicle](#).
- Big Timber Pioneer News. Changing a Driving Culture. (February 21, 2013).
- MSU study focuses on young drivers (April 26, 2013)- [Montana State University News Service](#).

- Reach for the Stars (January 27, 2012)- [Bozeman Daily Chronicle](#).
- WTI Lands Grant to Study Hazard Perception (December 8, 2011)- [MSU News Service](#).
- Hey Driver's Put that Cell Phone Down (December 4, 2011)- [Bozeman Daily Chronicle](#).
- KBZK-Montana (April 15, 2011) - [MSU Student Project Looks at Texting and Driving](#).
- Most Valuable Professor (October 1, 2011) – MSU Homecoming. Radio interview on MSU's IE program.
- MSU Students, Adults with Disabilities Work Together to Find Ways to Work Independently, [Billings Gazette](#), December 29, 2010; [Bozeman Daily Chronicle](#) December 25, 2010; and [MSU News Service](#)
- Bicycle and Pedestrian Safety Research at Montana State University, *Surface Transportation Technical Group Newsletter Human Factors & Ergonomics Society*, September, 2010 Volume 17, Issue 2.
- Public Roads Cover Story on Naturalistic Evaluation of Emergency Medical Service Providers During Emergency Transport – October, 2010.
- National Public Radio – Yellowstone Interview by Jackie Yamanke on Texting and Driving – [NPR Distracted Driving, Part 1 of 3](#) (aired February 22, 2010).
- The Key to Saving Cyclists (September, 2010) – Video Feature on [Discoveries and Breakthroughs in Science](#)
- Role of Blackbox Technology in Transportation Safety – Published in *IntelliDrive Update*, October 2009, Vol. 3, No. 2
- Institute to Study Drowsy and Distracted Driving (August 26, 2008). [Bozeman Daily Chronical](#).
- Western Transportation Institute to Study Drowsy and Distracted Driving Teen Study (August 25, 2008). [MSU News Service](#)
- Driving simulator comes to Bozeman. KTVM (October 10, 2008).
- WTI Installs One of the Country's Largest Driving Simulators (November 10, 2008). [MSU News Service](#).
- Life in the simulated fast lane (November 20, 2008). Great Falls Tribune
- Federal Focus on Rural Road Safety Brings High-level Visitors to WTI (October 21, 2008). [MSU News Service](#)
- Skid Monsters Train Teen Drivers (August 1, 2005). [MSU News Service](#)
- Rural Drivers Using Cell Phones are Likely to Cause Accidents (June 23, 2005). [MSU News Service](#)

CONSULTING EXPERIENCE

- Immersive Reality Group, LLC
- G.C. Wallace Companies Transportation Engineers, Surveyors, & Planners, Las Vegas, NV
- Ortho-Rodgers & Associates Transportation Engineering & Planning, Las Vegas, NV
- Marley & Associates Ergonomics & Human Factors Consulting, Bozeman, MT

TEACHING

Associate Professor, Gianforte School of Computing, Montana State University, Bozeman, Montana
Average Student Evaluation scores for HCI & UX School of a Computing course at **MSU = 4.7/5**

- **Human-Computer Interaction (CSCI 494)**
 - Student Evaluations Spring 2023 – **4.6/5** (1-poor to 5-excellent)

- **User Interface Design (CSCI 443)**
 - Student Evaluation Fall 2022 – **4.5/5** (1-poor to 5-excellent)
- **Human-Computer Interaction (CSCI 494)**
 - Student Evaluations Spring 2022 – **4.4/5** (1-poor to 5-excellent)
- **User Interface Design (CSCI 443)**
 - Student Evaluation Fall 2021 – **4.8/5** (1-poor to 5-excellent)
- **Seminar: Advanced Human-Computer Interaction (CSCI 494)**
 - Student Evaluations Spring 2021 – **5/5** (1-poor to 5-excellent)
- **Human-Computer Interaction (CSCI 494)**
 - Student Evaluations Spring 2021 – **5/5** (1-poor to 5-excellent)
- **UX Research & Design/User Interface Design (CSCI 443)**
 - Student Evaluation Fall 2020 – **4.6/5** (1-poor to 5-excellent)
- **Social and Ethical Issues in Computer Science (CSCI 215)**
 - Student Evaluation Fall 2019 – **3/5** (1-poor to 5-excellent)
- **Human-Computer Interaction (CSCI 494)**
 - Student Evaluations Spring 2020 – **4.6/5** (1-poor to 5-excellent)

Associate Professor, Industrial Engineering Department, Clemson University, Clemson, South Carolina

- **Teaching Evaluations: Department Faculty Ranking Top 95%**
- **Human-Centered Design & Engineering (IE 4910)**
 - Student Evaluation – 4.5/5 (1-poor to 5-excellent), ex. student feedback
 - *“Dr. Stanley is my favorite professor. The information was easy to understand and very real-world applicable.”*
 - *“She is very calm and treats the students like her peers. I love the atmosphere in this class. I also like how the week is split in lecture and show and tells. I have learned a lot by being required to discuss two issues with the products discussed during the presentations”*
 - *“Prof. Stanley's knowledge and real-world experience in Human Factors was an awesome positive of this course. She put together a very interesting and student involved course, and I am glad that she is at Clemson.”*
 - *“Dr. Stanley was very easy to approach. She really cares for her students and always makes class relevant to everyday life”*
 - *“Lectures were fantastic, Open and honest professor, Clearly communicated needs, Answered email in timely manner, Available a lot outside of class”*
 - *“Dr. Stanley teaching style is different than any other teachers I have taken at Clemson. I like the way she had plan for Show N Tell Presentation to think outside of the box.”*
 - *“The instructor had a great relationship with the class. She kept the class involved and interested in the material. She gave the class more practical experience on the topic covered in the class than I have ever received from a course.”*

Assistant & Associate Professor, Mechanical & Industrial Engineering Department, Montana State University, Bozeman, Montana

- **Introduction to Systems Engineering (EIND 142)**
 - Student Evaluation – 4.1/5 (1-poor to 5-excellent), ex. student feedback

- *“Dr. Stanley was my favorite instructor so far at MSU. She is always enthusiastic about her teaching and provides an excellent and positive classroom environment. She is completely unbiased in everyday work with students.”*
- *“I have enjoyed the course and being able to gain a wider understanding of what IE is. I can tell the professor loves the subject matter and enjoys her job teaching students. Thanks for an enjoyable semester.”*
- *“She is the best faculty member of Engineering. I had the privilege of taking her course.”*
- **Advanced Methods in Ergonomics and Human Factors (EIND 514 – Graduate Course)**
 - Student Evaluation – 4.8/5 (1-poor to 5-excellent), ex. student feedback– *“Dr. Stanley made an excellent effort to break up the class into different styles, so everything was interesting. I believe Dr. Stanley is an excellent professor, not only because of her subject mastery, but also her ability to relate to us.”*
- **Occupational Biomechanics (EIND 511 – Graduate Course)**
 - Student Evaluation – 4.4/5 (1-poor to 5-excellent), ex. student feedback
 - *“Great discussion, literature reviews were a good way to help focus what you do/ not to do in my own research. Like the unconventional HW assignments kept it interesting (SAS project, etc.). Great way to split up the course project. Felt a little pushed, but that was my doing. Great course.”*

Adjunct Instructor, Industrial & Systems Engineering Department, Virginia Tech, Blacksburg, Virginia

LICENSES/SECURITY CLEARANCE/INTELLECTUAL PROPERTY

- Board Certified Professional Ergonomist #1449
- U.S. Public Trust Security Clearance
- International Application No. PCT/US23/26187, 26-June-2023, *System & Method of Respiratory Disease Detection*

SERVICE

Professional & Scientific Review Committees

National Science Foundation and NASA Review Panels (not as NSF Program Director):

- NSF's SBIR/STTR Small Business Innovation Research/Small Business Technology Transfer Reviewer, 2024
- NSF CAREER Panel, 3x reviewer, 2021 - current
- NSF/NIH CISE Program Reviewer, 2021, 2022
- NASA Translational Research Institute for Space Health (TRISH) Biomedical Research Advances for Space Health (Brash), 2019
- National Science Foundation, National Research Traineeship (NRT) Program Review Panel, 2019 Final Round
- National Science Foundation, Graduate Research Fellowship Program (GRFP) Review Panel, 2019

- National Science Foundation, National Research Traineeship (NRT) Program Review Panel, 2019 – First Round
- National Science Foundation, Computer & Information Science & Engineering (CISE), CAREER Review Panel, 2018
- National Science Foundation, Computer & Information Science & Engineering (CISE), Computer Network Systems, Reviewer, 2018
- National Science Foundation, Computer & Information Science & Engineering (CISE), Cyber-Human Systems Core MEDIUM Program Review Panel, 2017
- National Science Foundation, Engineering Directorate Review Panel 2017
- National Science Foundation, Computer & Information Science & Engineering (CISE) Human-Centered Computing SMALL Review Panels 2011

Editorial Service:

- Special Issue Editor for IISE Transactions on Occupational Ergonomics and Human Factors- “Human-centered eXtended Reality for Industrial and Occupational Support” (2023-current)
- Associate Editor for International Journal of Industrial Ergonomics (2019-2022)
- Associate Editor for IEEE Transactions on Human-Machine Systems (2018-2021)
- Guest Editor for IEEE Transactions on Multi-faceted Driver-Vehicle systems: towards more effective simulations, more reliable human modeling and increased safety and trust (2018)
- Associate Editor for Human Factors and Ergonomics in Manufacturing & Service Industries Journal (2016-2019)
- Guest Editor for IEEE Transactions on Holistic Approaches for Human-Vehicle Systems: Combining Models, Interactions and Control (2017)
- Content Review Board Industrial Engineering Body of Knowledge, Safety Chapter (IEBoK) – 2016-2020
- Associate Editor for IEEE Transactions on Human-Machine Systems (2013-2016)
- Book Review for Introduction to Human Factors and Ergonomics, Fourth Edition- CRC Press/Taylor and Francis Prepublication Book Proposal (2016)

Scientific Chair Roles & Review Committees:

- Scientific Reviewer - Oak Ridge Associated Universities (ORAU) Faculty-Development Competitive Research Grants Program and Special Artificial Intelligence and Data Science Competitive Research Grants Program (2023-2024)
- ACM Transactions on Computing for Healthcare, Scientific Review (2021-current)

- Program Chair 1st IEEE Conference on Human-Machine Systems: Human-Centered Cyberphysical Systems, Rome, Italy - IEEE Society on Systems, Man and Cybernetics (2019-2020)
- ACM CHI Conference on Human Factors in Computing Systems Scientific Review Committee (2016-current)
- National Council on Undergraduate Research Conference, Scientific Review, 2020.
- Transportation Research Part C: Emerging Technologies Scientific Review Committee (2017-2018)
- International Journal of Industrial Ergonomics Scientific Review Committee (2019-current)
- IIE Transactions on Occupational Ergonomics and Human Factors (2015-current)
- ASEE-American Society for Engineering Education Research and Methods Division Scientific Review Committee (2015-current)
- American Society for Engineering Education Scientific Review Committee (2010-current)
- Pediatrics-Official Journal of the American Academy of Pediatrics Scientific Review Committee (2014-2018)
- Accident Analysis & Prevention Journal Scientific Review Committee (2009-2018)
- Human Factors: Journal of Human Factors & Ergonomics Society Scientific Review Committee (2010-current)
- National Academy of Science, Transportation Research Board (TRB) Operator Education and Regulation Scientific Review Committee Member AND30, (2011-2018)
- National Academy of Science, Transportation Research Board (TRB) User Information Systems Scientific Review Committee Member AND20, (2006-2018).
- National Academy of Science, Transportation Research Board (TRB) Committees on Vehicle User Characteristics Scientific Review Friend of the Committee AND10, (2006-2018).
- Human Factors and Ergonomics Society Surface Transportation Group (2005-2018)

External Promotion and Tenure Reviewer:

- Virginia Tech – External Reviewer for Tenure Candidate in College of Engineering
- University of Oklahoma – External Reviewer for Tenure Candidate in College of Engineering

University, College, Department Committees

- Center for Mental Health Research and Recovery Affiliate Faculty, 2023-current
- Enhancing COE Student Writing Group – College of Engineering Committee (2023-current)
- School of Computing Tenure Track Faculty Search Committee (2022-2023)
- Chaperone Grace Hopper Conference (2022)
- Center for Faculty Excellence Faculty Mentor Program (Mentor) – Montana State University (2022-current)
- National Science Foundation Values-based Academic Leadership Trajectories for Women in STEM (VAuLTS): Northwest NSF ADVANCE Partnership External Mentor Program – (2021-current)
- Appointed MSU’s Faculty Representative for Federal Demonstration Partnership by Montana State University-Office of Vice President for Research, Economic Development & Graduate Education (2021-2022)
- Gianforte School of Computing, Awards Committee (2020-current)
- Committee on Broadening the Participation of Women and Unrepresented Minorities in Computer Science (2020-current)
- School of Computing Tenure Track Faculty Search Committee (2021-2022)
- Gianforte School of Computing, MS Committee Representation (2020-2021)
- Virtual Reality Day at Montana State University, Coordination Committee, (2019-current)
- Clemson University, Industrial Engineering Department, Graduate Program Coordinator (2017-2019)
- Search Chair and Dean’s Representative to Department Chair of Industrial Engineering Search Committee (2018-2019)
- Vice President of Research Elected Committee for Hitachi High Technologies Electron Microscopy Graduate Fellowship (2018-2019)
- Vice President of Research Elected Committee for National Science Foundation National Research Traineeship (NRT) Program
- Clemson University TIGER Grants Review Panel, December 2017
- Montana State University, College of Engineering PhD Industrial Engineering Graduate Program Coordinator (2013-2015)
- Montana State University College of Engineering Promotion and Tenure Committee (2014-2015)

- Human Factors and Ergonomics Society of Montana State University – Faculty Advisor (2013-2015)
- National Science Foundation Appointed ADVANCE Equity Advocate (2014-2015)
- Montana State University Industrial & Mechanical Engineering Teaching Faculty Search Committee for Mechanical Engineering Program (2015)
- Montana State University Industrial & Mechanical Engineering Teaching Faculty Search Committee for Industrial Engineering Program (2015)
- Montana State University Industrial & Mechanical Engineering Department Head Search Committee (2014)
- Montana State University College of Engineering Dean Search Committee (Fall 2013)
- Montana State University Industrial & Mechanical Engineering Department Faculty Search Committee for Industrial Engineering Faculty (Spring 2012)
- Montana State University Industrial & Mechanical Engineering Department Lab Committee (2011-2015)
- Montana State University Industrial & Mechanical Engineering Department Promotion and Tenure Committee (2011)
- Montana State University Industrial & Mechanical Engineering Department Faculty Search Committee for Industrial Engineering Instructor Vacancy (Fall 2010)
- Member, IE Undergraduate Program Committee, Montana State University (2008-2013).
- Institute of Industrial Engineers – Montana State University’s Chapter Advisor (2008-2010)
- Montana State University Industrial & Mechanical Engineering Department Head Search Committee (2004-2005)
- Montana State University Industrial & Mechanical Engineering Department Faculty Search Committee for Industrial Engineering Faculty Vacancy (2008)
- Montana State University Industrial & Mechanical Engineering Department Faculty Search Committee for Industrial Engineering Faculty Vacancy (2010)
- General Engineering Advisor for M&IE Department (2010-2012)
- Review Committee for Undergraduate Research Experience September (2009-2014)

Conference Positions

- Conference Track Chair Augmented, Applied Human Factors and Ergonomics International Conference, Virtual and Mixed Reality Simulation, 2023
- Conference Track Chair for Surface Transportation Group – Glance behavior and Distraction Session, Human Factors and Ergonomics Society Annual Conference, Austin, Texas, 2017
- Conference Track Chair for Marc Resnick Best Paper Competition- Human Factors and Ergonomics Society Annual Conference, Austin, Texas, 2017
- Conference Track Chair for Institute of Industrial & Systems Engineers – Industrial and Systems Engineering Research Sessions (ISERC) – Safety, Human Factors & Ergonomics, (2015-2016)
- Chair for Transportation Topics, International Conference on Operations Excellence & Service Engineering, Orlando, FL, 2015.
- Chair for Human Factors & Ergonomics Usability Potpourri, Annual Meeting of the Institute of Industrial Engineers, San Juan, Puerto Rico, 2013.
- Chair for Human Factors Methods in Transportation, Annual Meeting of the Institute of Industrial Engineers, Cancun, Mexico, 2010.
- Chair for Undergraduate Research Frontiers in Education Annual Meeting, Arlington, VA, 2010.
- Chair for Surface Transportation Session at the Human Factors and Ergonomics Society Annual Meeting, 2010.
- Chair for Human Factors in Transportation, Industrial Engineering Theory, Applications and Practice Annual Meeting, Las Vegas, NV 2008.
- Host, and Member of scientific committee, the International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, 2006.
- Host, Institute of Transportation Engineers District 6 Annual Meeting Local Arrangements Committee (2004 to 2005)

Selected Outreach and Diversity

- Numerous STEM outreach talks and lab demonstrations – dissemination to date over 500 students (primarily girls in STEM and Native American students) (2008-current)
- Children’s Science Museum of Bozeman – Immersive Technology outreach events (2020-current)
- NSF ADVANCE – Equity Advocate (appointed) (2014-2015)
- Expanding your Horizons Workshop Facilitator (2010-current)

- McNair Scholar Program Volunteer and Mentor (2010-current)
- STEM Lego Judge and Referee (2005-current)
- United States Department of Transportation's Research for the High-School Student Summer Transportation Institute Guest Lecturer (2005-present)
- Montana Apprenticeship Program for Native Americans Encouraging Participation in Science and Engineering Mentor (2004-present)
- NSF Undergraduate Research Experience Selection Committee and Mentor (September 2008-2015)
- Mentor for Human Factors and Ergonomics Society Surface Transportation Group Mentorship Program-Mentor (2010-2012)
- United States Department of Transportation's Research for the Undergraduate Experience Mentor (2008-2010)
- Bridges and Dams: Exciting Young Girls about Engineering Volunteer (2003-2006)
- Women in Engineering MentorNET Mentor (2002 to 2006)
- Montana State University College of Engineering Women in Engineering Advisory Council (2004 to 2006)
- Montana State University Engineering Outreach Program Volunteer (2003 to 2006)

ADVISING

KEY HONORS & AWARDS TO STUDENTS

Apostolos Kalatzis	PhD Researcher of the Year Honorable Mention – Gianforte School of Computing
Kajia Coziahr	Undergraduate Researcher of the Year – Gianforte School of Computing
Vishnu Prabhu	Outstanding Graduate Research Assistant – Clemson University
Vishnu Prabhu	Teaching Assistant of the Year – Dept. of Industrial Engineering
Vishnu Prabhu	Greenville Health System Research Scholar – Graduate Student Award
Dial Devane	SPARK Challenge 1 st Place – Undergraduate Student Award
Kaysha Young	National Science Foundation Graduate Fellowship Research Program/Montana State Univ.
Jessica Mueller	United States Department of Transportation Dwight Eisenhower Transportation Graduate Fellowship/Montana State Univ.
Kaysha Young	United States Department of Transportation Dwight Eisenhower Transportation Graduate Fellowship/Montana State Univ.

Kaysha Young	Herrick Award, Montana State University /Montana State Univ.
Jessica Mueller	MSU's College of Engineering Benjamin Fellowship/Montana State Univ.
Jessica Mueller & Tawny Hoyt	National Highway Traffic Safety Administration Enhanced Safety of Vehicles – Selected as top team for the Student Safety Technology Design Competition/Montana State Univ.
Jessica Mueller	Dissertation funded by the Montana Academy of Sciences/Montana State Univ.
Kaysha Young	Ronald E. McNair Young Scholarship /Montana State Univ.
Tawny Hoyt	Best Technical Paper and Presentation at the Western IIE Conference /Montana State Univ.
Tawny Hoyt	Western Transportation Institute Graduate Fellowship Award/Montana State Univ.
Jessica Mueller	Western Transportation Institute Graduate Fellowship Award/Montana State Univ.
Jessica Mueller	National Rural Intelligent Transportation Systems Student Paper Competition: 3 rd Place/Montana State Univ.
Tawny Hoyt	Runner-up for the First Annual National Rural ITS Conference Student Paper Competition for paper entitled <i>Naturalistic Data Collection in Rural Emergency Medical Services Transportation</i> /Montana State Univ.
Jessica Mueller	University Transportation Centers Student of the Year/Montana State Univ.

GRADUATE RESEARCH STUDENT SUPERVISION

¹Major advisor for research ²Externally funded students

Name	Discipline/Research Sponsor/Institution
Ashlyn Zebrowski	Biomedical Health Informatics (PhD)/University of North Carolina, Chapel Hill – 2022-current
Tadeo Aviles Zuniga ^{1,2}	Gianforte School of Computing (PhD)/Montana State University – 2023-current
Yvette Hastings	Gianforte School of Computing (PhD)/Montana State University – 2023-current
Nishu Nath ^{1,2}	Gianforte School of Computing (PhD)/Montana State University – 2022-current

Apostolos Kalatzis ^{1,2}	Gianforte School of Computing (PhD)/Montana State University
Vishnu Prabhu ²	Industrial Engineering (MS/PhD)/Clemson University
Saidur Rahman ²	Gianforte School of Computing (PhD)/Montana State University
Haoran Wang ^{1,2}	Gianforte School of Computing (PhD)/Montana State University
Ibrahim Barada ²	Gianforte School of Computing (MS)/Montana State University
Kajia Coziahr ^{1,2}	Gianforte School of Computing (MS)/Montana State University
Asad Noor ²	Gianforte School of Computing (MS)/Montana State University
Shannon Delvin ²	Industrial Engineering (PhD)/Clemson Univ.
Rong Yin	Industrial Engineering (PhD)/Clemson Univ
Josh Biro ^{1,2}	Industrial Engineering (PhD)/Clemson Univ
Katie Jurewicz ²	Industrial Engineering (PhD)/Clemson Univ.
Kylie Gomes ²	Industrial Engineering (PhD)/Clemson Univ.
Courtney Linder ^{1,2}	Industrial Engineering (PhD)/Clemson Univ
Haleh Barmaki ^{1,2}	Industrial Engineering (PhD)/Clemson Univ.
Abishishek Goyal	Automotive Engineering (MS)/Clemson Univ.
Pradeep Selvaraju	Automotive Engineering (MS)/Clemson Univ.
Vishnunarayan Prabhu ^{1,2}	Industrial Engineering (MS)/Clemson Univ.
Erfan Pakdamanian ¹	Industrial Engineering (MS)/Montana State Univ.
Fred Volmer	Computer Science (MS))/Montana State Univ.
Deepak Sharma ¹	Industrial Engineering (MS))/Montana State Univ.
Kaysha Young ^{1,2}	Industrial Engineering (PhD)/NSF)/Montana State Univ.
Kartik Vakharia	Industrial Engineering (MS))/Montana State Univ.
Kezia Manlove ²	Statistics (PhD)/NSF, MDT)/Montana State Univ.
Hanane Taffahi	Industrial Engineering (MS))/Montana State Univ.
Ashley Beckstead	Chemistry & Biochemistry (PhD))/Montana State Univ.
Javion Blake	Industrial Engineering (MS))/Montana State Univ.

Jessica Mueller ^{1,2}	Industrial Engineering (PhD)/NSF/USDOT)/Montana State Univ.
Alyssa Peck ²	Statistics (MS)/MDT)/Montana State Univ.
Lenore Page ^{1,2}	Industrial Engineering (PhD)/NSF)/Montana State Univ.
Salman Imitaz ^{1,2}	Industrial Engineering (MS)/NSF)/Montana State Univ.
Shuchisnigdha Trina ¹	Industrial Engineering (MS)/NSF)/Montana State Univ.
Kaysha Young ^{1,2}	Industrial Engineering (MS)/NSF)/Montana State Univ.
Parissa Nagizihad ¹	Industrial Engineering (MS)/Montana State Univ.
Chris Runquist ^{1,2}	Industrial Engineering (MS)/MDT)/Montana State Univ.
Shaun Durkee	Industrial Engineering (MS)/Montana State Univ.
Anburaj Muthumani	Industrial Engineering (MS)/Montana State Univ.
Tawny Hoyt ^{1,2}	Industrial Engineering (MS)/USDOT/FHWA)/Montana State Univ.
Joey Staszuck	Civil Engineering (MS)/Montana State Univ.
Jessica Mueller ^{1,2}	Industrial Engineering (MS)/USDOT)/Montana State Univ.

UNDERGRADUATE RESEARCH STUDENT SUPERVISION

¹*Externally funded students*

Name	Discipline/Research Sponsor
Layton McCafferty ¹	Gianforte School of Computing/ McNair Scholar/Montana State University
Kajja Coziahr ¹	Gianforte School of Computing/Montana State University
Collin Wright ¹	Gianforte School of Computing/Montana State University
Connor Markus ¹	Gianforte School of Computing/Montana State University-current
Jace Zavarelli ¹	Gianforte School of Computing/Montana State University-current
Issa Rabideux	Gianforte School of Computing/McNair Scholar's Program
Nick Spinetta	Gianforte School of Computing
Rory Donely-Lovato	Gianforte School of Computing/FRYE (First Year Undergraduate Research Experience)-current

Mariafe Ponce ¹	Gianforte School of Computing/Montana State University
Norhan Abbas	Gianforte School of Computing/Montana State University
Ben Berga ¹	Gianforte School of Computing/Montana State University
Mic Wetherbee ¹	Gianforte School of Computing/Montana State University
Amanda Rickert ¹	Industrial Engineering/Clemson University Honors College
Rebecca Spilka	Industrial Engineering/Clemson University Honors College
William Walters	Industrial Engineering/Clemson University Honors College
Chloe Bryan	Industrial Engineering/Clemson University
Christopher Lane	Industrial Engineering/Creative Inquiry Program- Clemson University
Abigail Haines	Industrial Engineering/ Creative Inquiry Program- Clemson University
Hanna Maad	Industrial Engineering/ Creative Inquiry Program- Clemson University
Sydney Schiff	Industrial Engineering/ Creative Inquiry Program- Clemson University
Jacob Lyons	Computer Science/ Creative Inquiry Program- Clemson University
Amanda Hindman	Industrial Engineering/Clemson University
Nicholas Gustafson	Computer Science/ Creative Inquiry Program- Clemson University
Reagan Ulmer	Industrial Engineering/Clemson University
Ty Show ¹	Industrial Engineering/McNair Scholar/Montana State Univ.
Kaysa Young ¹	Mechanical Engineering/MDT/Montana State Univ.
Erica Pimley	Industrial Engineering EIND 490/Montana State Univ.
Kelly Borden ¹	Health and Human Development/MDT/Montana State Univ.
Conor Gallagher ¹	Industrial & Systems Engineering Virginia Tech/NSF REU/Montana State Univ.
Taylor Martin ¹	Human Factors Psychology, Embry-Riddle Aeronautical University /NSF REU/Montana State Univ.
Tara Azamian ¹	Biomechanical Engineering Cornell University/NSF REU/Montana State Univ.
Daniel Mercer ¹	Mechanical Engineering, Portland State University/NSF REU/Montana State Univ.
Kaysa Young ¹	Mechanical Engineering/Undergraduate Scholar's Program/Montana State Univ.

Tawny Hoyt ¹	Industrial Engineering/USDOT/FHWA/Montana State Univ.
Micheal Nguyen	Industrial Engineering/Montana State Univ.
Laura Frazee ¹	Agriculture and Education/MDT/Montana State Univ.
Becky Heyward ¹	Industrial Engineering/NHTSA/Montana State Univ.
Kayscha Young ¹	Mechanical Engineering/McNair's Scholar Program)/Montana State Univ.
Penny Atkins	Industrial Engineering/490 Undergraduate Research/Creativity Activity/Montana State Univ.
Erica Pimley ¹	Industrial Engineering/MDT/Montana State Univ.
Kayscha Young ¹	Mechanical Engineering/NSF/Montana State Univ.
Gordon Nelson ¹	Undergraduate Research Experience sponsored by USDOT/Montana State Univ.
John McIntosh ¹	Computer Science/NSF/Montana State Univ.
Penny Atkins ¹	Industrial Engineering/Undergraduate Research Experience sponsored by USDOT/Montana State Univ.
Gordon Nelson	Electrical Engineering/Honors Program)/Montana State Univ.
Becky Heyward	Industrial Engineering/490 Undergraduate Research/Creativity Activity/Montana State Univ.
Tawny Hoyt ¹	Industrial Engineering/490 Undergraduate Research/Creativity Activity/Montana State Univ.
Jyoti Sharma	Industrial Engineering/Montana State Univ.

UNDERGRADUATE & GRADUATE RESEARCH STUDENT PRESENTATIONS

Name	Discipline	Graduate/ Undergrad.	Role	Research Topic	Conference	Place/Year
Penny Atkins	Industrial Engineering	Undergrad.	Lead	Collision Avoidance Warning System for Pedestrians/Cyclists	<i>IMAGE Society Annual Conference Proceedings</i>	St. Louis, MO 2009
Penny Atkins	Industrial Engineering	Undergrad.	Lead	Collision Avoidance Warning System for Pedestrians/Cyclists	<i>MSU Undergraduate Research Symposium</i>	Bozeman, MT 2009
Rebecca Heyward	Industrial Engineering	Undergrad.	Lead	EMS Risk Seeking Behaviors	<i>MSU Undergraduate Research Symposium</i>	Bozeman, MT 2009
Rebecca Heyward	Industrial Engineering	Undergrad.	Lead	EMS Risk Seeking Behaviors	<i>EMS Safety Summit</i>	Loveland, CO 2009

Gordon Nelson	Electrical Engineering	Undergrad.	Lead	Collision Avoidance Warning System for Pedestrians/Cyclists	<i>MSU Undergraduate Research Symposium</i>	Bozeman, MT 2009
Tawny Hoyt	Industrial Engineering	Undergrad.	Lead	Evaluation of the Emergency Medicine Service Work Environment	<i>Association for the Advancement of Automotive Medicine</i>	Las Vegas, NV 2010
Tawny Hoyt	Industrial Engineering	Undergrad.	Lead	Evaluation of the Emergency Medicine Service Work Environment	<i>Institute of Industrial Engineers Western Regional Conference-Student Competition</i>	Seattle, WA 2010
Tawny Hoyt	Industrial Engineering	Undergrad.	Lead	Evaluation of the Emergency Medicine Service Work Environment	<i>MSU Undergraduate Research Symposium</i>	Bozeman, MT 2010
Tawny Hoyt	Industrial Engineering	Undergrad.	Lead	Evaluation of the Emergency Medicine Service Work Environment	<i>National Conference on Undergraduate Research</i>	Missoula, MT 2010
Tawny Hoyt	Industrial Engineering	Undergrad.	Lead	Evaluation of the Emergency Medicine Service Work Environment	<i>Institute of Industrial Engineers Western National Conference – Student Competition</i>	Cancun, MX 2010
Kaysha Young	Mechanical Engineering	Undergrad.	Lead	<i>Hands Free Texting While Driving – Is It Safer than Conventional Texting While Driving?</i>	Topical Session – TriO-McNair Scholars Program	Bozeman, MT 2012
Kaysha Young	Mechanical Engineering	Undergrad.	Lead	<i>Hands Free Texting While Driving – Is It Safer than Conventional Texting While Driving?</i>	National Council for Undergraduate Research Annual Conference,	Ogden, UT 2012
Kaysha Young	Mechanical Engineering	Undergrad.	Lead	<i>Drivers’ Attitudes and Behaviors Regarding Voice Activated Texting Technology and Distracted Driving. Proceedings of the Industrial and Systems Engineering Research Conference</i>	Industrial & Systems Engineering Research Conference	San Juan, PR 2013
Erica Pimley	Industrial Engineering	Undergrad.	Co	<i>Are Teen Drivers Aware of the Top Five Dangers Affecting their Safety?,</i>	MSU Student Research Celebration	Bozeman, MT 2013
Kelly Borden	Health and Human Development	Undergrad.	Co	<i>Are Teen Drivers Aware of the Top Five Dangers Affecting their Safety?,</i>	MSU Student Research Celebration	Bozeman, MT 2013

Kaysha Young	Industrial Engineering	Undergrad.	Co	<i>Are Teen Drivers Aware of the Top Five Dangers Affecting their Safety?</i> ,	MSU Student Research Celebration	Bozeman, MT 2013
Kaysha Young	Industrial Engineering	Undergrad.	Lead	<i>Characterizing Stopping Behavior at Intersections: Differences Between Experienced and Novice Drivers.</i>	MSU Student Research Celebration	Bozeman, MT 2014
Kaysha Young	Industrial Engineering	Undergrad.	Lead	<i>Human Factors Design of a Low-Cost Adjustable Wheel Locking System for a Child's Wheelchair.</i>	Applied Human Factors and Ergonomics Conference	Las Vegas, NV 2015
Kaysha Young	Industrial Engineering	Undergrad.	Lead	<i>Usability assessment of an adjustable wheel-locking system for a child's wheelchair.</i>	International Conference on Operations Excellence & Service Engineering	Orlando, FL 2015
Kaysha Young	Industrial Engineering	Undergrad.	Lead	<i>Usability assessment of a headrest accessory use for wheelchairs</i>	International Conference on Operations Excellence & Service Engineering	Orlando, FL 2015
Kaysha Young	Industrial Engineering	Undergrad.	Co	<i>Validity Assessment of Virtual Reality through Geo-Specific Scenarios</i>	Applied Ergonomics Conference	Orlando, FL 2016
Ty Show	Industrial Engineering	Undergrad.	Lead	<i>Peer-to-Peer Effects Among Teen Drivers</i>	MSU Student Research Celebration	Bozeman, MT 2014
Alyssa Peck	Statistics	Undergrad.	Lead	<i>Evaluating the Effectiveness of Occupant Protection Programs.</i>	<i>Montana Space Grant Consortium Student Research Symposium.</i>	Bozeman, MT 2014
Ty Show	Industrial Engineering	Undergrad.	Lead	<i>Peer-to-Peer Effects Among Teen Drivers on the Blackfeet Indian Reservation</i>	MSU Student Research Celebration	Bozeman, MT 2015
Salman Imtiaz	Industrial Engineering	Graduate	Lead	<i>Hazard Perception Differences between Experienced and Less Experienced Drivers While Driving in Real World Potential Hazards</i>	MSU Student Research Celebration	Bozeman, MT 2014
Salman Imtiaz	Industrial Engineering	Graduate	Lead	<i>Characterizing Eye Movement Behavior of Teen Drivers while Following a Left Turning Truck at Stop Controlled Intersection".</i>	12-th Annual Regional National Occupational Research Agenda Symposium.	Salt Lake City, UT 2014

Salman Imtiaz	Industrial Engineering	Graduate	Lead	<i>Driving Behavior Differences among Early Licensed Teen, Novice Teen, and Experienced Drivers in Simulator and Real World Potential Hazards”.</i>	2014 Industrial and Systems Engineering Research Conference	Montreal, Canada, 2014
Salman Imtiaz	Industrial Engineering	Graduate	Lead	<i>Hazard Perception Differences Between Experienced and Less Experienced Drivers While Driving in Real World Hazards”.</i>	Industrial and Systems Engineering Research Conference;	Nashville, TN 2015
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Differences in Self-Reported versus Department of Motor Vehicle in Citation History for Teen Drivers,</i>	Annual Regional National Occupational Research Agenda Symposium	Salt Lake City, UT 2009
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Effectiveness of a Multistage Driver Education Program for Novice Drivers</i>	Human Factors and Ergonomics Society Annual Meeting	San Francisco, CA 2010
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Naturalistic Data Collection in Rural Emergency Medical Services Transportation</i>	National Rural Intelligent Transportation System (NRITS) Annual Conference	Huntington, WVa 2010
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Whole-Body Vibration in Emergency Medical Transportation</i>	National Occupational Research Agenda (NORA)	Salt Lake City, UT 2013
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Assessing Physiological Response Validity in Simulated and Real Driving Environments</i>	Industrial and Systems Engineering Research Conference	San Juan, PR 2013
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Improving Restraint Feasibility through Ambulance Layout Redesign</i>	7 th Annual Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design	Bolton Landing, NY 2013
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Emergency Medical Services: A Naturalistic Posture Evaluation While Providing Patient Care during Patient Transport.</i>	Human Factors and Ergonomics Society Annual Meeting	San Diego, CA 2013
Mueller, Jessica	Industrial Engineering	Graduate	Co	<i>Characterizing Stopping Behavior at Intersections: Differences Between Experienced and Novice Drivers.</i>	MSU Student Research Celebration	Bozeman, MT 2014

Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Driving Simulator and Scenario Effects on Driver Response</i>	Industrial and Systems Engineering Research Conference	Montreal, CAN 2014
Mueller, Jessica	Industrial Engineering	Graduate	Lead	<i>Driver Characteristics: Simulated and on-road driver stopping behaviors</i>	Transportation Review Board Annual Conference	Washington, DC 2015
Schiff, Sydney	Industrial Engineering	Undergrad.	Co	<i>Personas to Improve the Development of Healthcare Focused Virtual Reality Applications</i>	Southeastern Human Factors Applied Research Conference	Clemson, SC 2018
Jessica, Barry	Industrial Engineering	Undergrad.	Co	<i>Personas to Improve the Development of Healthcare Focused Virtual Reality Applications</i>	Southeastern Human Factors Applied Research Conference	Clemson, SC 2018
Jacob Lyons	Computer Science	Undergrad.	Co	<i>The Use of VR for Acute Pain Management in Operative Care Environments, Southeastern Human Factors Applied Research Conference</i>	Southeastern Human Factors Applied Research Conference	Clemson, SC 2018
Nicholas Gustafson	Computer Science	Undergrad.	Co	<i>The Use of VR for Acute Pain Management in Operative Care Environments, Southeastern Human Factors Applied Research Conference</i>	Southeastern Human Factors Applied Research Conference	Clemson, SC 2018
Maher Ghalayini	Industrial Engineering	Graduate	Lead	<i>Personas to Improve the Development of Healthcare Focused Virtual Reality Applications</i>	Southeastern Human Factors Applied Research Conference	Clemson, SC 2018
Josh Biro	Industrial Engineering	Graduate	Lead	<i>The Use of VR for Acute Pain Management in Operative Care Environments, Southeastern Human Factors Applied Research Conference</i>	Southeastern Human Factors Applied Research Conference	Clemson, SC 2018
Abigail Hines	Industrial Engineering	Undergrad.	Lead	<i>Analyzing the Mood-Improvement Effects of Exposure to Virtual Reality Dogs</i>	National Conference on Undergraduate Research	Kennesaw, GA 2019
Rickert, A.	Industrial Engineering	Undergrad.	Lead	<i>Examination of Presence in VR Through Haptically Delivered Thermal Stimuli</i>	National Conference on Undergraduate Research	Kennesaw, GA 2019

TECHNICAL REPORTS

- Stanley, L. & Manlove, K., Peck, & Alyssa, P. K.** Assessing the Effectiveness of Montana's Vehicle Occupant Protection Program FHWA/MT-15-001/8221-001. Final Report, Montana Department of Transportation/U.S. Department of Transportation, February 2015.
- Stanley, L. & Plumb, C., Pimley, E., & Borden, K.** A Peer-to-Peer Traffic Safety Campaign Program. FHWA/MT-14-003/8218. Final Report, Montana Department of Transportation/U.S. Department of Transportation, June, 2014.
- Bowman, D. S., Hanowski, R. J., Alden, A., Gupta, S., Wiegand, D. M., Baker, S., **Stanley, L.**, & Wierwille, W. W. (2012). Final Report: Development and Assessment of a Driver Drowsiness Monitoring System. Contract No. DTH22-05-D-01019, Task Order 7. Blacksburg, VA: Virginia Tech Transportation Institute.
- Stanley, L. & Hoyt, T.** An Experiment in Integrating a Communications Toolkit into the Engineering Curriculum. Engineering Information Foundation, January 2011.
- Stanley, L. & Mueller, J.** Effects of Defensive Vehicle Handling Training on Novice Driver Safety: Final Report. Montana Department of Transportation, August 2010.
- Ward, N., **Stanley, L.**, & *Durke, S.* An Objective Evaluation of an Education-Based Distracted and Drowsy Driving Intervention for Teen Drivers in Rural America. National Highway Traffic Safety Administration, July 2010.
- Stanley, L. & Mueller, J.** Effects of Defensive Vehicle Handling Training on Novice Driver Safety: Year 3 Interim Report of Descriptive Statistics from Phase 3. Montana Department of Transportation, February 2009.
- Heyward, B., **Stanley, L.**, & Ward N. Risk-Seeking Behaviors and Emergency Medical Service Crash Risk in Rural Ambulance Drivers. A report prepared for the University Transportation Centers Program. May 2009.
- Ward, N. & **Stanley, L.** CAWS System Evaluation: Simulation Study. Preventive Safety Research, Inc., November 2008.
- Stanley, L. & Mueller, J.** Effects of Defensive Vehicle Handling Training on Novice Driver Safety: Year 2 Interim Report of Descriptive Statistics from Phase 3. Montana Department of Transportation, October 2008.
- Stanley, L. & Angell, L.** Advanced Crash Avoidance Technologies Program – Special Crash Investigations and the Analysis of Backover Crashes. National Highway Traffic and Safety Administration, General Motors and VirginiaTech Cooperative Agreement Number DTNH22-06-H-00069, proprietary work, July 2008.
- Antin, J., **Stanley, L.**, & Cicora, K. Conventional vs. Onboard Navigation Methods: Efficiency & Safety Evaluation. TNO Transportation Research Institute and TomTom International, proprietary report, June 2008.
- Antin, J., **Stanley, L.**, Hankey, J., & Perez M. Advanced Crash Avoidance Technologies Program Backing Crash Countermeasures Project & Preliminary Countermeasure Description. National Highway Traffic and Safety Administration, General Motors and Virginia Tech Cooperative Agreement Number DTNH22-06-H-00069, proprietary work, October 2007.

- Perez, M., **Stanley, L.**, Hankey, J., & Keifer, R. The Effect of Visual Alert Type on Drivers' Ability to Detect Alerts and Forward Scene Changes Immediately Following Alerts. General Motors Structure and Safety Integration Center, proprietary work, September 2007.
- Stanley, L.**, Tidwell, S., Blanco, M. Knipling, R., & Hanowski, R. Commercial Motor Vehicle (CMV) Driving Simulator Validation Study (SimVal): Phase2, Interim Report. U.S. Department of Transportation Federal Motor Carrier Safety Administration: DTNH22-05-D-01019, National Highway Traffic and Safety Administration Task Order No. 0009, November 2006.
- Weigand, D., Tidwell, S., **Stanley, L.**, Nakata, A., & Blanco, M. Safety Evaluation of an In-Vehicle Communication Device for Commercial Trucks, DLA Piper, Inc., propriety work, October 2006.
- Stanley, L.**, Wierwille, W., Hanowski, R., & Blanco, M. Development and Assessment of a Driver Fatigue Monitoring System: Literature Review and Functional Specifications. Federal Motor Carrier Safety Administration: DTNH22-05-D-01019, National Highway Traffic and Safety Administration Task Order No. 0007, August 2006.
- Baker, S., Lovell, B., Howard, E., & **Stanley, L.** 511 Virginia Statewide Evaluation Final Report. For Virginia Department of Transportation, September 2006.
- Stanley, L.**, Kelly, M. J., Marley, R., Cole, M., & Stanislaw, J. Haptic and Auditory Interfaces as a Collision Avoidance Technique during Run-Off-Road and Head-On Collisions and Driver Perception of Modalities. For Research and Innovative Technology Administration United States Department of Transportation, June 2006.
- Hardy, A., Fuller, S., **Stanley, L.**, & Al-Kaisy A. Bozeman Pass Wildlife Channelization ITS Project. For Montana Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, June 2006.
- Kelly, M. & **Stanley, L.** Effects of Defensive Vehicle Handling Training on Novice Driver Safety: Phase 1. Preparation for Advanced Driving Training Report. For Montana Department of Transportation in cooperation with the U.S. Department of Transportation Federal Highway Administration, August 2005.
- Kelly, M., **Stanley, L.**, & Lassacher, S. Driver Performance while using a Cellular Telephone Interface to a Traveler Information System. For Research and Innovative Technology Administration, United States Department of Transportation, May 2005.