

Education

- Ph.D. Industrial & Systems Engineering** May 2022
Texas A&M University, College Station, TX
Advisor: Dr. Tony McDonald
Co-Advisor: Dr. Farzan Sasangohar
- B.S. Industrial & Systems Engineering** May 2018
Texas A&M University, College Station, TX

Publications

Journal Articles Published or Accepted

- J6 Wang, X., Son, C., Hegde, S., Keller, B., **Smith, A.**, Sasangohar, F. (2020). Investigating College Students' Mental Health During the COVID-19 Pandemic: An Online Survey Study. *Journal of Medical Internet Research*.
- J5 Son, C., Hegde, S., **Smith, A.**, Wang, X., Sasangohar, F. (2020). Effects of COVID-19 on college students mental health in the United States: Interview-survey Study. *Journal of Medical Internet Research*.
- J4 Peres, S.C., **Smith, A.**, and Sasangohar, F. (2020). Worker-Centered Investigation of Issues with Procedural Systems: Implications for the Revision Process and Safety Culture. *Journal of Loss Prevention in Process Industries*.
- J3 **Smith, A.**, McDonald, A.D., Sasangohar, F. (2020). Night-shift nurses and drowsy driving: A qualitative study. *International Journal of Nursing Studies*.
- J2 Mehta, R., **Smith, A.**, Williams, J.P., Peres, S.C., Sasangohar, F. (2019). Investigating fatigue in offshore drilling: A qualitative data analysis of interviews. *IISE Transactions on Occupational Ergonomics and Human Factors*.
- J1 Sasangohar, F., Peres, S.C., Williams, J.P., **Smith, A.**, Mannan, S. (2018). Investigating written procedures in process safety: Qualitative data analysis of interviews from high risk facilities. *Process Safety and Environmental Protection*, 113, pp. 30-39.

Conference Proceedings

- C5 **Smith, A.**, McDonald, A. D., Sasangohar, F., Sosa, L., Lazaro L., Ouko, C. (2020). Preventing Drowsy Driving Crashes Among Night Shift Nurses: An Evaluation of Educational and Technological Interventions. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.
- C4 **Smith, A.**, Sasangohar, F., McDonald, A. (2019). Mitigating Drowsy Driving in Night Shift Nurses Using a Technological Device. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.
- C3 **Smith, A.**, Sasangohar, F., McDonald, A., Bonuel, N., Shui, H., Ouko, C., Lazaro, L. (2019). Drowsy Driving Among Shift Work Nurses: A Qualitative Data Analysis. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care*, Chicago, IL.
- C2 Williams, J. P., Sasangohar, F., Peres, S. C., **Smith, A.**, Mannan, M. S. (2017). Investigating written procedures in process safety: Qualitative data analysis of interviews from high risk facilities. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (pp. 1669–1670). Santa Monica, CA: Human Factors and Ergonomics Society.
- C1 Moon, J., **Smith, A.**, Sasangohar, F., Benzer, J., Kum, H.-C. (2017). A descriptive model of the current PTSD care system: Identifying opportunities for improvement. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care*, New Orleans, LA, 6(1), 251.

Posters

- P9 Wang, X., **Smith, A.**, Keller, B., Ambati, P., Dishman, D., Sasangohar, F. (2021). Deriving Information Requirements for College Student Mental Health Self-Management Mobile Applications. Poster session of the International Symposium in Human Factors and Ergonomics in Health Care.
- P8 **Smith, A.**, McDonald, A. D., Sasangohar, F., Sosa, L., Lazaro L., Ouko, C. (2020). Preventing Drowsy Driving Crashes Among Night Shift Nurses: An Evaluation of Educational and Technological Interventions. Poster Session of the Human Factors and Ergonomics Society Annual Meeting.
- P7 **Smith, A.**, Sasangohar, F. (2020). Veterans' Preferences for a Remote Monitoring Tool for PTSD. Poster session of the International Symposium in Human Factors and Ergonomics in Health Care.
- P6 **Smith, A.**, Rodriguez-Paras, C., Sasangohar, F. (2020). Investigating Veterans' Experiences with Posttraumatic Stress Disorder Care. Poster session of the International Symposium in Human Factors and Ergonomics in Health Care.
- P5 Rodriguez-Paras, C., **Smith, A.**, Moon, J., Rao, A., Sasangohar, F. (2019). Investigating Triggers and Daily Challenges for Post-Traumatic Stress Disorder. Poster session of the Houston Chapter of the Human Factors and Ergonomics Society Annual One-Day Symposium. Houston, TX.
- P4 **Smith, A.**, Sasangohar, F., McDonald, A., Bonuel, N., Shui, H., Ouko, C., Lazaro, L. (2019). Drowsy Driving Among Shift Work Nurses: A Qualitative Data Analysis. Poster session of the Houston Chapter of the Human Factors and Ergonomics Society Annual One-Day Symposium. Houston, TX.
- P3 **Smith, A.**, Sasangohar, F., McDonald, A. (2019). Investigating Night Shift Nurse Preferences for a Drowsy Driving Mitigation Device. Poster session of the Houston Chapter of the Human Factors and Ergonomics Society Annual One-Day Symposium. Houston, TX.
- P2 **Smith, A.**, Sasangohar, F., McDonald, A., Bonuel, N., Shui, H., Ouko, C., Lazaro, L. (2019). Drowsy Driving Among Shift Work Nurses: A Qualitative Data Analysis. Poster session of the International Symposium in Human Factors and Ergonomics in Health Care. Chicago, IL.
- P1 Moon, J., **Smith, A.**, Sasangohar, F., Benzer, J., Kum, H.-C. (2017). A descriptive model of the current PTSD care system: Identifying opportunities for improvement. Poster session of the International Symposium on Human Factors and Ergonomics in Health Care. New Orleans, LA.

Research Experience

Graduate Research Fellow

Center for Outcomes Research (COR), Houston Methodist Hospital

2020-Present

- Stand Up 2 Cancer
 - Methodologies: Interviews, Qualitative Data Analysis
 - Topics: User-Centered Design

Graduate Research Assistant

Human Factors and Machine Learning (HFML) Lab, College Station

2018-Present

Applied Cognitive Ergonomics (ACE) Lab, College Station

2018-Present

- Drowsy Driving Among Night-Shift Nurses
 - Outcomes: Journal article (J3), conference proceeding (C3, C4, C5), posters (P2, P3, P4, P8)
 - Methodologies: Naturalistic Driving Study, Data Science, Interviews, Qualitative Data Analysis
 - Topics: Drowsy Driving, User-Centered Design, Transportation, Systems Modeling, Shift-work
- PTSD Continuous Monitoring Systems
 - Outcomes: Posters (P5, P6, P7)
 - Methodologies: Interviews, Qualitative Data Analysis
 - Topics: User-Centered Design, Health Care Systems, Systems Modeling

- Student Mental Health
 - Outcomes: Journal articles (J5, J6), posters (P9)
 - Methodologies: Interviews, Surveys, Qualitative Data Analysis
 - Topics: User-Centered Design, Health Care Systems, Systems Modeling
- Next Generation Advanced Procedures
 - Outcomes: Journal articles (J4)
 - Methodologies: Interviews, Qualitative Data Analysis
 - Topics: Procedure Adherence, Process Safety, Safety Culture

Undergraduate Research Assistant

Applied Cognitive Ergonomics (ACE) Lab, College Station

2016-2018

- PTSD Continuous Monitoring Systems
 - Outcomes: Conference proceeding (C1), posters (P1)
 - Methodologies: Interviews, Qualitative Data Analysis
 - Topics: User-Centered Design, Health Care Systems, Systems Modeling
- Procedure Use Among Oil, Gas and Energy Operators
 - Outcomes: Journal articles (J1), conference proceeding (C2)
 - Methodologies: Interviews, Qualitative Data Analysis
 - Topics: Procedure Adherence, Process Safety
- Fatigue Among Off-Shore Operators
 - Outcomes: Journal article (J2)
 - Methodologies: Interviews, Qualitative Data Analysis
 - Topics: Fatigue, Shift-work

Teaching Experience

Teaching Assistant

AERO 489/689: Special Topics in Human Factors in Aerospace	2021
ISEN 489/689: Special Topics in Human Factors in Aerospace	2021
ISEN 667: Engineering Economy	2021
ISEN 615: Production and Inventory Control	2019
ISEN 660: Quantitative Risk Analysis	2019

Service

Volunteering

HFES Annual Meeting Student Volunteer	2019
Houston HFES Annual Meeting Student Volunteer	2019
ACE Lab Social Committee	2018-2021
ACE Lab Tour Committee	2018-2019
South Bronx Educational Foundation	2017

Referee

BMC Health Services Research	2020
HFES Annual	2020
IEEE Transactions on Human-Machine Systems	2019

Mentoring Experience

Masters

Priyanka Ambati	2020
Patricio Ramirez	2018
Undergraduates	
Alejandra Puente	2021
Jesse Lien	2021
Arian Noor	2021
Roberto Pacheco	2021
Erin Maddix	2020-2021
Walid Zaari	2020-2021
Hayder Alhilo	2020-2021
Sathana Sivasubramaniam	2020
Varun Shankaran	2020
Jackson Sanders	2020
David Dishman	2020
Jacqueline Hernandez	2020
Hafsa Arshad	2020
Robert Hendrix	2020
Jorge Rodriguez	2020
David Dishman	2020
Jacqueline Hernandez	2020
Laura Pinzon	2019
Christian Martin	2019
Hayden Altman	2018-2019
Gabriel Delgado	2018
William Hitt	2018

Industry Experience

Accessibility and Aging Intern

HP Inc, Houston, TX

June-August 2017

Production Engineering Intern

ConocoPhillips, Franklin, TX

May-August 2015