# Shannon Bailey, Ph.D.
(407) 401-1347 | shannonbailey@usf.edu

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## EDUCATION

**University of Central Florida**, Orlando, FL
Ph.D. in Human Factors and Cognitive Psychology     December 2017
M.A. in Applied Experimental and Human Factors Psychology     May 2016
B.S. in Psychology (Statistics Minor)     May 2012

## PROFESSIONAL EXPERIENCE

**University of South Florida**     2022 – Present
*Sr. Human Factors Scientist,* Center for Advanced Medical Learning & Simulation (CAMLS)
*Assistant Professor,* Department of Medical Education, Morsani College of Medicine (MCOM)

**Immersive Tech, Inc.**     2019 – 2022
*Human Factors Scientist, Lead Researcher*

**Naval Air Warfare Center Training Systems Division (NAWCTSD)**     2014 – 2018
**STRIKE Lab**
*Research Psychologist (2017 – 2018)*
*Research Psychologist, StraCon Contractor (2015 – 2017)*
*Research Assistant (2014 – 2015)*

## RESEARCH SUPPORT

### Current Support

**US Air Force STTR FA864924P0953 Phase II**
Lockhart (PI, SimX); Todd (PI, USF); Role: Subaward Co-I
7/24/24 – 4/27/26
Surgical Perioperative Expeditionary Medical Support Training for Air Force Nursing using Virtual Reality
USF Subaward: $374,859
Effort: 12%

**US Air Force STTR FA864924P0953 Phase II**
Lockhart (PI, SimX); Todd (PI, USF); Role: Subaward Co-I
7/12/24 – 4/13/26
VR Military Women's Health Care Services Simulation Training for Deployed Servicemembers
USF Subaward: $374,857
Effort: 12%

**NIH/NCATS 2R44TR003956-02A1 Phase II**
Burns (Co-PI, Immertec); Bailey (Co-PI, USF)
12/15/23 – 11/30/25
Advancing Emergency Medicine Training with Remote Stereoscopic Livestream Technology
Total: $1,604,483; USF Subaward: $527,633
Effort: 23%

**Florida High Tech Corridor Matching Grant Program**
Bailey (PI)
12/15/23 – 11/30/25
Matching Grant: Advancing Emergency Medicine Training with Remote Stereoscopic Livestream Technology Phase II
Total: $147,226
Effort: 20%

**Prior Support**

**US Air Force STTR FX23D-TCSO1-0130 Phase I**
Barrie (PI, SimX); Todd (PI, USF); Role: Subaward Co-I
4/28/22 – 7/29/23
Immersive Virtual Reality Training for Administration of Anesthesia in the Field
USF Subaward: $21,032

**USSOCOM H92405-20-D-0001**
Bailey (PI)
12/7/22 – 5/6/23
Technical Experimentation Medical Training Event: Developing Criteria to Compare Military Medical Trauma Simulations Across Modalities
Total: $477,921

**US Air Force STTR FA864923P0358 Phase I**
Barrie (PI, SimX); Todd (PI, USF); Role: Subaward Co-I
11/3/22 – 2/6/23
Surgical Perioperative Expeditionary Medical Support Training for Air Force Nursing using Virtual Reality
USF Subaward: $22,500

**US Air Force STTR FA864923P0337 Phase I**
Barrie (PI, SimX); Todd (PI, USF); Role: Subaward Co-I
11/3/22 – 2/6/23
VR Military Women's Health Care Services Simulation Training for Deployed Service Members
USF Subaward: $22,500

**NIH/NCATS R43TR003956 Phase I**
Bailey (PI)
8/1/21 – 7/31/22
Advancing Emergency Medicine Training with Remote Stereoscopic Livestream Technology
Total: $150,000

**Office of Naval Research N0001417WX00513**
Johnson (PI); Role: Co-I
2017 – 2019
Adaptive Training for USMC Close Air Support (CAS) Tactics and Decision-Making
Total: $933,914

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**Department of Navy 219BAR-16-019**
Bailey & Johnson (Co-PIs)
2016 – 2019
Examining the Effects of Game Features on Learning in Simulation-Based Training
Total: $291,370

**Department of Navy 219BAR-15-020**
Johnson (PI): Role: Co-I
2015 – 2018
Investigating Low-cost Untethered Virtual Reality Technologies and the Role of Affordances on Training Effectiveness in an Immersive Environment
Total: $422,500

## PEER-REVIEWED PUBLICATIONS
*\* Mentored Student*

Bajwa, M., Herx-Weaver, A., **Bailey, S.,** Ray, J., Park, Y. S., Palaganas, J., & Ahmed, R. (2024). Human factors considerations in distance simulation: A nominal group technique application. *The Clinical Teacher,* Article e13724. https://doi.org/10.1111/tct.13724

**Bailey, S. K. T.,** Brannick, M. T., Reiner, C. C., Rettig, N., Dyer, L. M.\*, Okuda, Y., Llerena, L. E., & McKenna, R. T. (2024). Immersive distance simulation: Exploring the educational impact of stereoscopic extended reality (XR) video in remote learning environments. *Medical Teacher.* https://doi.org/10.1080/0142159X.2024.2314725

Charnetski, M. D., Wawersik, D., Palaganas, J. C., Duff, J. P., **Bailey, S. K. T.,** Ramachandra, G., Birido, N., Elkin, R., Nair, B., Thurber, P., & Gross, I. T. (2024). Understanding the effects of healthcare distance simulation: A systematic review. *Simulation in Healthcare,* 19(1S), S57-S64. https://doi.org/10.1097/SIH.0000000000000760

Gonzalez, B. D., Choo, S.\*, Janssen, J. J., Hazelton, J., Latifi, K., Leach, C. R., **Bailey, S. K. T.,** Jim, H. S. L., Oswald, L. B., Woolverton, M., Murphy, M., Schilowitz, E. L., Frakes, J. M., Robinson, E. J., & Hoffe, S. (2024). Novel virtual reality app for training patients on MRI-guided radiation therapy. *Advances in Radiation Oncology*, 101477. https://doi.org/10.1016/j.adro.2024.101477

Birido, N., Brown, K. M., Olmo-Ferrer, D., Friedland, R., **Bailey, S. K. T.**, Wawersik, D., Gross, I. T., Charnetski, M., Nair, B., Kutzin, J. M., & Palaganas, J. (2024). Healthcare simulation in-person and at a distance: A systematic review. *Simulation in Healthcare,* 19(1S), S65-S74. https://doi.org/10.1097/SIH.0000000000000763

**Bailey, S. K. T.,** Brannick, M. T., Bowling, F., Reiner, C. C., Lyons, D., Llerena, L. E., & Okuda, Y. (2023). Comparing capabilities of simulation modalities for training combat casualty care: Perspectives of combat medics. *Military Medicine*, Article usad460. https://doi.org/10.1093/milmed/usad460

**Bailey, S. K. T.,** Lewis, J. E., Ciccone, B. A., Friedland, R. L., & Reiner, C. C. (2023). Assessing usability of untethered head-mounted displays for medical education: A within-person randomized trial. *Simulation in Healthcare.* https://doi.org/10.1097/SIH.0000000000000637

Johnson, C. I., **Bailey, S. K. T.,** Schroeder, B. L., & Marraffino, M. D. (2022). Procedural learning in virtual reality: The role of immersion, interactivity, and spatial ability. *Technology, Mind, and Behavior, 3*(4). https://doi.org/10.1037/tmb0000087

Ciccone, B. A., **Bailey, S. K.,** & Lewis, J. E. (2021). The next generation of virtual reality: Recommendations for accessible and ergonomic design. *Ergonomics in Design, 29*(3). https://doi.org/10.1177/10648046211002578

**Bailey, S. K.** & Dean, M. (2020). Remote solution for immersive surgical mentoring. *Medical Education, 54*(5), 485-486. https://doi.org/10.1111/medu.14087

**Bailey, S. K.,** Neigel, A. R., Dhanani, L. Y., & Sims, V. K. (2018). Establishing measurement equivalence across computer- and paper-based tests of spatial cognition. *Human Factors, 60*(3), 340-350. https://doi.org/10.1177/0018720817747731

## BOOK CHAPTERS/REPORTS

**Bailey, S. K. T**., Okuda, Y., & Reiner, C. C. (2023). Pros, cons, and considerations of implementing live virtual reality in medical education. In M. Bowden, K. Yee, & W. Dorner (Eds.), *Ethical Considerations of Virtual Reality in the College Classroom: Cross-Disciplinary Case Studies of Immersive Technology Implementation* (pp. 215-229). Routledge. https://doi.org/10.4324/9781003329718

**Bailey, S. K. T.** & Brannick, M. T. (2023). USSOCOM Medical Technical Experimentation Event Study Report. Report for United States Special Operations Command: CDRL:A010 Final Technical Report, 170 pages.

Johnson, C. I., **Bailey, S. K.**, & Van Buskirk, W. L. (2017). Designing effective feedback messages in serious games and simulations: A research review. In P. Wouters & H. van Oostendorp (Eds.), *Techniques to Improve the Effectiveness of Serious Games.* Switzerland: Springer International Publishing. https://doi.org/10.1007/978-3-319-39298-1_7

## PRESENTATIONS/PROCEEDINGS
*\* Mentored Student*

Sullivan, R.\*, Furtak, L., McKenna, R., Simoes, M., & **Bailey, S.** (*accepted*). Navigating point-of-care ultrasound education: A review of simulation approaches. In *Proceedings of the Human Factors and Ergonomics Society.*

**Bailey, S. K. T.** (2024, March). Human factors considerations for extended reality in healthcare simulation training. Invited presentation *at the Human Factors and Ergonomics Society Health Care Symposium*, Chicago, IL.

Ahmed, R., Doos, D., Wong, A., Hughes, A., Calhoun, A., Cassara, M., Ray., J., & **Bailey, S.** (2024, March). Human factors role in medial simulation and the need for further collaborative research. Panel presented *at the Human Factors and Ergonomics Society Health Care Symposium*, Chicago, IL.

**Bailey, S. K. T.,** Hughes, A. M., Dong, Y., Robertson, J. M., & Ray, J. M. (2024, March). Integrating human factors to enhance healthcare distance simulation. Presented *at the Human Factors and Ergonomics Society Health Care Symposium*, Chicago, IL.

Dyer, L. M.\*, Reiner, C. C., & **Bailey, S. K. T.** (2024, April) Hearing is believing: A new approach to fidelity and immersion in healthcare simulation. Presented *at the Human Factors and Ergonomics Society Health Care Symposium*, Chicago, IL.

Titze, D. M.*, Okuda, Y., Llerena, L. E., McKenna, R. T., & **Bailey, S. K. T.** (2024, January). Using generative artificial intelligence tools for developing medical simulation training scenarios. In *Proceedings of the International Meeting on Simulation in Healthcare (IMSH),* San Diego, CA. http://dx.doi.org/10.2139/ssrn.4789070

Alford, N.*, Moffitt, S.*, Okuda, Y., & **Bailey, S**. (2024, January). Wearable haptic feedback devices in virtual reality for healthcare simulation training: A narrative review [Poster presentation]. International Meeting on Simulation in Healthcare (IMSH), San Diego, CA.

Sullivan, R.*, Furtak, L., McKenna, R., & **Bailey, S.** (2024, January). Point of care ultrasound simulation trainers: A state-of-the-art technology review. [Poster presentation]. International Meeting on Simulation in Healthcare (IMSH), San Diego, CA.

**Bailey, S.,** Brannick, M., Bowling, F., Reiner, C., Llerena, L., Lyons, D., & Tromly, S. (2023, November). Developing criteria to compare military medical trauma simulations across modalities. In *Proceedings of the Interservice/Industry Training, Simulation and Education Conference.* *Awarded Best Paper in Simulation*

Choo, S.*, Gonzalez, B., Hazelton, J., Robinson, E., Mohan, S., Leach, C., **Bailey, S.,** Latifi, K., & Hoffe, S. (2023, October). Toward burnout prevention: Can one short virtual reality relaxation and mindfulness training session for staff and patients decrease stress and improve subjective sense of wellbeing? *International Journal of Radiation Oncology, Biology, Physics, 117*(2), e507.

**Bailey, S. K. T**., Reiner, C. C., Kaplan, H. D., Dyer, L. M.*, Spenser, M. F., & McKenna, R. T. (2023, October).  Development of a medical audio mobile application for use in healthcare simulation training. In *Proceedings of the Human Factors and Ergonomics Society.*

Spain, R., Goldberg, B., **Bailey, S.,** Fussell, S., Bayro, A., Chen, K.; Dam, A., Enebechi, N., Hale, K., Jones, A., Lau, N., Regina, R., Sturgeon, L., Thomas, R., Vaughn-Cooke, M., & Owens, K. (2023, October). Human factors extended reality showcase. In *Proceedings of the Human Factors and Ergonomics Society* (Vol. 67, No. 1, pp. 1495-1500). Sage CA: Los Angeles, CA: SAGE Publications.

**Bailey, S.,** Hughes, A., Ray, J., Miller, G., Vora, S., & Scerbo, M. (2023, March). Human factors' role in distance healthcare simulation [Panel]. Human Factors and Ergonomics Society International Symposium on Human Factors and Ergonomics in Health Care, Orlando, FL, USA

Reiner, C. C., **Bailey, S. K.**, Kaplan, H., Spenser, M., & McKenna, R. (2023, January) Increase fidelity with audio landscapes [Workshop]. International Meeting on Simulation in Healthcare, Orlando, FL, USA

Okuda, Y., Bramlet, M., Hackett, M., **Bailey, S.**, & Kutzin, J. (2023, January) Extended reality: Creative advances in training and education [Panel]. International Meeting on Simulation in Healthcare, Orlando, FL, USA

**Bailey, S. K.** & Friedland, R. (2023, January). Streaming virtual reality: An innovative approach to distance healthcare simulation. In *Proceedings of the International Meeting on Simulation in Healthcare*, Rochester, NY: SSRN - Elsevier. http://dx.doi.org/10.2139/ssrn.4466454

Kirkpatrick AJ, Morton A, Palaganas JC, Ahmed R, Fayyaz J, Walsh B, **Bailey S,** Calhoun A, Duff J, Elkin R. Eller S, Greer S, Hughes A, Hughes P, Kardong-Edgren S. Kou M, Lababidi H, Lopez C, Ramachandra G. Ray J. Riggall V, Sanko J, Thomas A, Adler M, & Gross IT (2023). 2022 Healthcare Distance Simulation Summit Proceedings - Advancing the Science of Distance Simulation. *The Healthcare Distance Simulation Collaboration.* https://www.healthcare distancesim com/projects

**Bailey, S. K.,** McKenna, R. T., Abdo, N. T., Reiner, C. C., Okuda, Y., Brannick, M. T., & Llerena, L. E. (2022, October). Virtual reality streaming for remote medical training: Evaluation of interface usability with physicians. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 66, No. 1, pp. 1947-1951). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181322661271

Spain, R., **Bailey, S. K.,** Goldberg, B., Sail, R., Carmody, K., Ficke, C., ... & Bond, A. (2022, October). Human factors applications using virtual reality, mixed reality, and virtual environments. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 66, No. 1, pp. 2188-2192). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181322661001

Llerena, L., **Bailey, S.,** Brannick, M., Reiner, C., Akyuz, B., Taber, S., Dyer, L.*, & Danker, L. (2022). Remote instruction of airway intubation using virtual reality: A randomized controlled trial. *Critical Care Medicine, 50*(1), 518. https://doi.org/10.1097/01.ccm.0000810484.95028.be

**Bailey, S. K.,** Petterson, S., & Friedland, R. (2021). *Validation of live virtual reality for remote surgical education: A usability evaluation in orthopedic surgery* [Poster presentation]. Association for Surgical Education Annual Meeting.

Celebi, K. C., **Bailey, S. K.**, Burns, M. W., & Bansal, K. (2021, September). Is virtual reality streaming ready for remote medical education? Measuring latency of stereoscopic VR for telementoring. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 65, No. 1, pp. 757-761). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181321651332

Beadle, S., Spain, R., Goldberg, B., Ebnali, M., **Bailey, S. K.**, Ciccone, B., ... & Keebler, J. (2020, December). Virtual reality, augmented reality, and virtual environments: Demonstrations of current technologies and future directions. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 64, No. 1, pp. 2119-2123). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181320641514

**Bailey, S. K.** & Johnson, C. I. (2020). A Human-Centered Approach to Designing Gestures for Natural User Interfaces. In: Kurosu M. (eds) *Human-Computer Interaction: Multimodal and Natural Interaction. HCII 2020. Lecture Notes in Computer Science,* vol 12182. Springer, Cham. https://doi.org/10.1007/978-3-030-49062-1_1. Presentation Recording: https://youtu.be/AsVlfylagcA

Johnson, C.I., **Bailey, S. K.**, & Mercado, A. D. (2020). Does Gamification Work? Analyzing Effects of Game Features on Learning in an Adaptive Scenario-Based Trainer. In: Sottilare R., Schwarz J. (eds) *Adaptive Instructional Systems. HCII 2020. Lecture Notes in Computer Science,* vol 12214. Springer, Cham. https://doi.org/10.1007/978-3-030-50788-6_36

**Bailey, S. K.,** & Johnson, C. I. (2019, November). Performance on a natural user interface task is correlated with higher gesture production. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 63, No. 1, pp. 1384-1388). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181319631181 ***Awarded Best Poster in Individual Differences**

Johnson, C. I., Marraffino, M. D., Whitmer, D. E., & **Bailey, S. K.** (2019). Developing an Adaptive Trainer for Joint Terminal Attack Controllers. In: Sottilare R., Schwarz J. (eds) *Adaptive Instructional Systems. HCII 2019. Lecture Notes in Computer Science*, vol 11597. Springer, Cham https://doi.org/10.1007/978-3-030-22341-0_25

**Bailey, S. K.,** Johnson, C. I., & Sims, V. K. (2019). Using Natural Gesture Interactions Leads to Higher Usability and Presence in a Computer Lesson. In: Bagnara S., Tartaglia R., Albolino S., Alexander T., Fujita Y. (eds) *Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing,* vol 826. Springer, Cham. https://doi.org/10.1007/978-3-319-96065-4_70

Johnson, C. I., **Bailey, S. K.**, & Whitmer, D. E. (2018). *Exploring sensory feedback modalities in virtual reality to promote transfer of training* [Poster presentation]. Congress of the International Ergonomics Association, Florence, Italy.

**Bailey, S. K.**, Johnson, C. I., Schroeder, B. L., & Marraffino, M. D. (2017). Using virtual reality for training maintenance procedures. In *Proceedings of the Interservice/Industry Training, Simulation and Education Conference.* (Vol. 17108, pp. 1-11).

Schroeder, B. L., **Bailey, S. K.**, Johnson, C. I., & Gonzalez-Holland, E. E. (2017). Presence and usability do not directly predict procedural recall in virtual reality training. In Stephanidis C. (Ed.), *Communications in Computer and Information Science:* Vol. 714. *HCII 2017 - Posters' Extended Abstracts* (pp. 54-61). Berlin, Germany: Springer. https://doi.org/10.1007/978-3-319-58753-0_9

**Bailey, S. K.,** Whitmer, D. E., Schroeder, B. L., & Sims, V. K. (2017, September). Development of Gesture-based Commands for Natural User Interfaces. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 61, No. 1, pp. 1466-1467). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1541931213601851

Johnson, C. I., **Bailey, S. K.**, Marraffino, M. D., & Schroeder, B. L. (2017, November). *Gesturing in virtual reality leads to better procedural learning for low spatial individuals* [Poster presentation]. Psychonomic Society Meeting, Vancouver, B.C., Canada.

**Bailey, S. K.** & Sims, V. K. (2017, April). *Determining gesture-based commands for a natural user interface* [Poster presentation]. Southeastern Human Factors Applied Research Conference, Raleigh, NC.

Landsberg, C. R., **Bailey, S. K.,** Van Buskirk, W. L., Gonzalez-Holland, E., & Johnson, C. I. (2016). Designing effective feedback in adaptive training systems. In *Proceedings of the Interservice/Industry Training, Simulation and Education Conference. *Awarded Best Paper in Training**

**Bailey, S. K.,** Schroeder, B. L., Whitmer, D. E., & Sims, V. K. (2016). Perceptions of mobile instant messaging apps are comparable to texting for young adults in the United States. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 60,* 1235-1239. https://doi.org/10.1177/1541931213601288

Schroeder, B. L., Whitmer, D. E., **Bailey, S. K.,** & Sims, V. K. (2016, September). Individual differences in middle school and college students' texting. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 1215-1219). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1541931213601284

Whitmer, D. E., Sims, V. K., **Bailey, S. K.,** & Schroeder, B. L. (2016, September). Time to decide: To call or not to call 911 during weather crises. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 60, No. 1, pp. 1160-1164). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1541931213601271

**Bailey, S. K.,** Schroeder, B. L., & Sims, V. K. (2015, September). Unsafe texting and socially problematic texting: Need for cognition as an underlying predictor. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 59, No. 1, pp. 971-975). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1541931215591279

Sinatra, A. M., Sims, V. K., **Bailey, S. K.,** & Najle, M. B. (2013, September). Differences in the performance of older and younger adults in a natural vs. synthetic speech dichotic listening task. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 57, No. 1, pp. 1565-1569). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1541931213571349

Sinatra, A. M., Sims, V. K., Najle, M. B., & **Bailey, S. K.** (2012, September). The impact of synthetic and accented speech on unattended recall in a dichotic listening task. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 56, No. 1, pp. 1635-1638). Sage CA: Los Angeles, CA: SAGE Publications. https://doi.org/10.1177/1071181312561327

**INVITED TALKS**

**Department of Defense Center of Excellence for Trauma: Joint Trauma System** 2024
*Teleconference Meeting*
"Comparing Military Medical Trauma Simulation Modalities: A Quantitative and Qualitative Study with Combat Medics"

**National Training and Simulation Association (NTSA)** 2024
*Webinar Series*
"Tech Grove Connect – Developing Criteria to Compare Military Medical Trauma Simulations Across Modalities"

**American Medical Women's Association (AMWA)** 2024
*Region 4 Conference*
"Panel: Innovation"

**International Virtual Reality Healthcare Association (IVRHA)** 2024
*8th Annual Virtual Reality and Healthcare Global Symposium*
"Practical Strategies and Ethical Reflections on Virtual Reality Adoption in Medical Education"

**Moffitt Cancer Center** 2023
*Junior Scientist Retreat*
"Panel: Diverse Paths to Research Careers"

# Shannon Bailey, Ph.D.

**University of Northern Colorado**                                                          2023
*PhD Seminar*
"Human Factors in Simulation Training: Evaluating Training Effectiveness of
Emerging Technologies"

**Mass General Hospital Institute of Health Professions**                    2021
*PhD Seminar*
"Demystifying Virtual & Augmented Reality in Health Professions Education:
Evidence, Current Applications, & Possibilities"

**SimOps**                                                                                              2021
"AR/VR/XR: Current State of Immersive Technology in Healthcare Training"

**USF Health Office of Interprofessional Education and Practice (IPEP)**    2021
*Health Interprofessional Education & Practice Webinar*
"Immersive Technology in Healthcare Education"
*https://youtu.be/q9TcCXq03Hg*

**MedVR**                                                                                             2020
"Livestreaming Video in XR for Remote Medical Education"
*https://youtu.be/h4tX1eqHSZ0*

**California State University Long Beach**                                            2020
*Human Factors Graduate Course*
"From PhD to Industry: How to Use Human Factors Research to Solve Real-world Problems"

**Virtual Reality Training Summit**                                                      2020
"Panel: How to Design and Measure a Successful VR Training Pilot"

**University of Tampa**                                                                      2020
*Writing for Interactive Media Undergraduate Course*
"Human Factors in Interactive Media"

**Florida Atlantic University**                                                             2020
*Ethical XR Symposium*
"Ethical and Privacy Considerations for Designing Immersive Technologies in Healthcare"

**University of Florida**                                                                      2020
*Health Administration Graduate Course*
"Designing Virtual Reality Applications for Healthcare"

**Product Camp Gulf Coast**                                                            2019
"Virtual Reality: Product Design Challenges & Solutions"

**University of Tampa**                                                                      2019
*Writing for Interactive Media Undergraduate Course*
"Not Just a Shiny Demo: Real-world Applications of Emerging Technology"

## NEWS MENTIONS & INTERVIEWS

Thompson, K. (July 22, 2024). Context key for medical trauma training, study finds. *National Defense Magazine.*

Pastis, S. (December 21, 2023). Virtual reality startup nets $1.6M to improve rural medical training with USF simulation center. *The Business Journals: Tampa Bay Inno.*

Pettiford, T. (September 11, 2021). USF teams up with Immertec to bring virtual teaching to students. *Bay News 9 Broadcast.*

Hawley, C. *(*August 26, 2021). USF Health utilizing virtual reality in operating room. *Fox 13 News Broadcast.*

## PROFESSIONAL SERVICE

### Human Factors and Ergonomics Society
| | |
|---|---:|
| *Review Committee Member, Jerome H. Ely Human Factors Article Award* | 2024 |
| *Chair, Virtual Environments Technical Group* | 2023 – Present |
| *Program Chair, Virtual Environments Technical Group* | 2020 – 2022 |
| *Conference Reviewer* | 2017 – Present |
| *Member* | 2015 – Present |

### Society for Simulation in Healthcare
| | |
|---|---:|
| *Haptics Working Group Member* | 2024 – Present |
| *Human Factors Track Leader,* Healthcare Distance Simulation Summit | 2022 – 2023 |
| *Human Factors Invited Expert*, Healthcare Distance Simulation Summit | 2021 |
| *Member* | 2021 – Present |

### Human Factors in Healthcare Journal
| | |
|---|---:|
| *Editorial Board Member* | 2021 – Present |

### Ad Hoc Journal Reviewer
| | |
|---|---:|
| *International Journal of Emergency Medicine* | 2024 – Present |
| *Simulation in Healthcare* | 2023 – Present |
| *British Journal of Educational Technology* | 2019 – Present |

## UNIVERSITY SERVICE

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|---|---:|
| **MCOM Faculty Search Committees,** *Member* | 2023 - Present |
| **Interprofessional Simulation Fellowship,** *Core Faculty* | 2023 - Present |
| **Medical Education Scholarly Concentration,** *Faculty Lead* | 2022 - Present |
| **USF Health Annual Research Day,** *Judge* | 2023 |
| **MCOM Annual RISE Student Symposium,** *Moderator* | 2023 |
| **MCOM SELECT Summer Immersion Course Project,** *Mentor* | 2023 |

## TEACHING/MENTORING

### University of South Florida
*Guest Lecturer*

**Medical Education Scholarly Concentration**

| | |
|---|---|
| "Statistical Power and Sample Size for Medical Education Research" | 2024 |
| "Research Process 101: High Yield for Medical Education" | 2023 |

**Simulation Operations (Undergraduate Course)**

| | |
|---|---|
| "Introduction to Simulation Modalities in Healthcare Training: Benefits, Limitations, and Considerations" | 2023 - 2024 |

### University of Central Florida           2012 - 2017
*Graduate Teaching Assistant*

**Research Methods** (Lab instructor): 5 semesters, 20-40 students/semester

**Statistical Methods in Psychology** (Lab instructor), 40 students

**Cognitive Psychology** (Lab instructor): 3 semesters, 74-200 students/semester

**Developmental Psychology** (Online): 3 semesters, 120-400 students/semester

**Human Factors Psychology** (In-person), 200 students

**General Psychology** (In-person), 200 students

**Motivation** (Online), 200 students