Curriculum Vitae (updated 3/5/25)

David T. Feltner
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Education

Master of Science 2017
North Carolina State University
Thesis: Effect of Interface Design on User Performance and Cognitive Workload in Unmanned Aerial Vehicle Control Tasks (Chair: Dave Kaber)

Bachelor of Science 2008
United States Military Academy at West Point, NY
- Engineering Psychology with Honors

Teaching

Assistant Professor 2017 – 2020
- Course Director, PL394: Anthropometrics and Biomechanics (AY 2018; 2019; 2020)
- Course Director, PL386: Experimental Psychology (AY 2019)
- Instructor, PL100: General Psychology for Leaders: (AY 2018; 2019; 2020)

Service

NC State Human Factors & Ergonomics Society Chapter President 2024-2025

Referred Journal Articles:

Pyke, A., Ness, J., & **Feltner, D.** (2023). What Types of Tactical Vulnerabilities Do Future Officers Most Anticipate. *The Cyber Defense Review*, *8*(1), 103-118.

Boyce, M.W., Thomson, R.H., Cartwright, J.K., **Feltner, D.T**., Stainrod, C.R., Flynn, J., Ackermann, C., Emezie, J., Amburn, C.,& Rovira, E. (2022) Enhancing military training using extended reality: A study of military tactics comprehension. *Frontiers in Virtual Reality, 3,* 754627. doi: 10.3389/frvir.2022.754627

Zhang, W., **Feltner, D.,** Kaber, D., & Shirley, J. (2021). Utility of Functional Transparency and Usability in UAV Supervisory Control Interface Design. *International Journal of Social Robotics*, *13*(7), 1761-1776.

Zhang, W., **Feltner, D.,** Shirley, J., Kaber, D., & Neubert, M. S. (2020). Enhancement and Application of a UAV Control Interface Evaluation Technique: Modified GEDIS-UAV. *ACM Transactions on Human-Robot Interaction (THRI)*, *9*(2), 1-20.

Deng, Y., Rose, T., Shirley, J., **Feltner, D.**, & Kaber, D. (2019). A Usability Assessment of Riding Lawn-mowing Equipment with Varying Levels of Design Standards Compliance. *Applied Ergonomics.*

Matthews, M. D., DeFiori, K., & **Feltner, D.** (2009) Soldier performance in high optempo conditions: West Point contributions. *Military Psychology, 21 (Supplemental Issue),* p. 130-137.

Referred Conference Proceedings:

Deng, Y., Shirley, J., Rose, T., **Feltner, D.**, Hoyle, J., Dutt, M., & Kaber, D. (2017). Development of a Usability and Functionality Assessment Tool for Riding Lawn Equipment. *Proceedings of the Human Factors and Ergonomics Society 63rd Annual Meeting.* 61(1): 2015-2019. Santa Monica, CA: HFES.

Zhang, W., **Feltner, D.**, Shirley, J., & Kaber, D. (2016). Unmanned Aerial Vehicle Control Interface Design and Cognitive Workload: A Constrained Review and Research Framework. Presented at the Systems, Man, and Cybernetics, IEEE International Conference, Budapest, Hungary.

Feltner, D., Johnson, A., & Rovira, E. (2008). TIGRFile: A low fidelity prototype aimed at integrating social network information into the TIGR system to aid leader decision making. *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting* (pp. 548-552). Santa Monica, CA: HFES.

Conference Presentations and Posters:

Feltner, D., Johnson, A., & Rovira, E. (2007, October). *Cognitive Capacity Limitations and Sensory Motor Process.* Presented at ARL & USMA Joint Technological Alliance, Atlantic, City, NJ.

Book Chapter:

Wetzler, B., & **Feltner, D.** (2021). Letter to the Future Self: A Profective Writing Assignment in Advanced General Psychology for Leaders. In Ender, Kimball, Sondheimer, & Bruhl (Eds.), *Teaching and Learning the West Point Way: Educating the Next Generation of Leaders*, pp 72-81, Routledge.

Reviewer:

Reviewer for Ergonomics in Design (November 2018).

Co-Reviewer for Human Factors (June 2024)