

NATHAN L. TENHUNDFELD, Ph.D.

Assistant Professor
University of Alabama in Huntsville
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Academic Positions

Assistant Professor (2019 – Present)
Department of Psychology
University of Alabama in Huntsville
Huntsville, AL

Human-Machine Teaming Lead – Postdoctoral Position (2017 – 2019)
Warfighter Effectiveness Research Center
United States Air Force Academy
Colorado Springs, CO

Associate Investigator - Contractor (2016 - 2017)
Warfighter Effectiveness Research Center
United States Air Force Academy
Colorado Springs, CO

Education

Colorado State University, Ph.D. (2017)
Fort Collins, CO
Cognitive Psychology
Advisor: Jessica Witt
Dissertation Committee: Ben Clegg, Alyssa Gibbons, C.A.P. Smith, &
Chris Wickens

Colorado State University, M.S. (2015)
Fort Collins, CO
Cognitive Psychology
Advisor: Jessica Witt

University of Virginia, B.A. (2012)
Charlottesville, VA
Major: Psychology

Research Grants (Total Amount: \$1,526,663)

Next Generation Interoperable Data Infrastructure for Geoscience Sample Data (EarthChem, LEPR/traceDs, SESAR): IEDA Re-invented. (**Tenhundfeld** is sole PI). Funding awarded through subcontract from *Columbia University*. (August 2022 – July 2027). Total amount awarded: \$47,163.

How to Assess the Efficacy of AI in Human Agent Teams. (Mesmer, PI; **Tenhundfeld**, Co-PI; Gholston, Co-PI; Menon, Co-PI; Weger, Co-PI). Funding by *U.S. Army Research Office*. (April 2022 - April 2023). Total amount awarded: \$300,000.

Workflow and Scheduling Management – Phase II. (Sandritter, PI; **Tenhundfeld**, Co-PI). *U.S. Airforce Small Business Technology Transfer Program*. (March 2022 – June 2023). Total amount awarded: \$750,000 (\$225,000 to UAH for which I am the sole PI).

Formation, Implementation, and Verification of Requirements for Human-Autonomy Teaming. (Weger, PI; Mesmer, Co-PI; **Tenhundfeld**, Co-I; Jones, Co-I). Funding by *Naval Postgraduate School – CRUSER* (September 2021 – September 2022). Total amount awarded: \$140,000.

Performance Enhancement Through HCI. (Gholston, PI; Mesmer, Co-PI; **Tenhundfeld**, Lead Researcher; Weger, Lead Researcher). Funding by *U.S. Army Research Laboratory*. (May 2020 – August 2022). Total amount awarded: \$150,000.

Motivating Use of Unmanned Assets in Human-Autonomy Teaming. (Mesmer, PI; Weger, Co-PI; **Tenhundfeld**, Lead Researcher). Funding by *Naval Postgraduate School – CRUSER* (January 2020 – December 2020). Total amount awarded: \$90,000.

Robot Design Impacts on High Risk Environment Use. (**Tenhundfeld** is sole PI). Funding awarded by *the University of Alabama in Huntsville's New Faculty Research Program (NFR)* (January 2020 – January 2021). Total amount awarded: \$10,000.

Pilot Vehicle Interface and Decision Support Application for Optimum Engagement of Manned/Unmanned Systems in a Dynamic, High Threat Environment. (**Tenhundfeld**, PI; Tossell, Co-PI). Funding by *Lockheed Martin* (July 2018 – July 2019). Total amount awarded: \$39,500

Pending Grants (Total Amount: \$450,000)

Deep Reinforced Learning Enabled Warfighter Assistant. (Lance, PI (Arcarithm); Mesmer, PI (UAH); **Tenhundfeld**, Co-I). Submitted 6/15/22. Submitted for U.S. Army Small Business Innovation Research (SBIR) program. Total funding: \$150,000.

Mission Information Support Operations (MISO) Tool: Feasibility of Dual-Use Technology Cyber Platform for Digital and Physical Situational Awareness in Connected Environments. (Sandritter, PI (Rippleworx); **Tenhundfeld**, PI (UAH); Vangsness, Co-I). Submitted 6/15/22. Submitted for U.S. Special Operations Command (SOCOM) Small Business Technology Transfer (STTR) program. Total funding: \$150,000.

Physiological Sensing for Improved Human-AI Collaborative Performance. (Bacon, PI (OASYS); Menon, PI (UAH); **Tenhundfeld**, Co-I; Weger, Co-I). Submitted 6/15/22. Submitted for U.S. Special Operations Command (SOCOM) Small Business Innovation Research (SBIR) program. Total funding: \$150,000.

Awards

The University of Alabama in Huntsville Undergraduate Research and Creative Activity Mentor Award (2022)

Raja Parasuraman Award for Scientific Impact – 2nd International Neuroergonomics Society Conference (2018)

Student Travel Award – American Psychological Association’s Division 19 (2015)

Invited Talks

Tenhundfeld, N.L. (2022) *Calibration of Trust to Facilitate Effective System Use in Human-Machine Interactions.* Talk presented to Raytheon Technology Integration Group, Virtual Presentation.

Tenhundfeld, N.L. (2022) *Never Gonna Give You Up: Legacy Trust Definitions and Measures May Need to be “Rolled” Out the Door.* Talk presented to Department of Psychology at Wichita State University, Wichita, KS.

Tenhundfeld, N.L. (2020). *The Long Road to Autonomous Cars: Human-Machine Teaming in a Tesla Model X*. Center for Human, AI and Robot Teaming, Arizona State University, Tempe, AZ.

Tenhundfeld, N.L., de Visser, E.J., Finomore, V.S., & Tossell, C.C. (2019). *Autonomy in Operational Environments*. Talk presented to the Applied Human Factors and Ergonomics Workshop in Human-Machine Teaming, Washington, DC.

Tenhundfeld, N.L. (2019). *Human and Machine: Human Factors in HMT at the US Air Force Academy*. Talk presented to annual Lockheed Martin Autonomy Executive Steering Committee Meeting, Denver, CO.

Tenhundfeld, N.L. (2018). *Human-Machine Teaming on the Road*. Talk presented to Center for Research on Training, University of Colorado, Boulder, CO.

Tenhundfeld, N.L. & Tossell, C.C. (2018). *Trusting, using, and understanding robotic and AI systems in war*. Talk presented to the Robotics Science and Systems Workshop in Adversarial Robotics, Carnegie Mellon University, Pittsburgh, PA.

Tenhundfeld, N.L. (2016). *Perception is action-specific*. Talk presented to Center for Research on Training, University of Colorado, Boulder, CO.

Journal Publications (♦ denotes graduate student, * denotes undergraduate)

Atchley♦, A., Barr♦, H.M., O’Hear*, E., Weger, K., Mesmer, B., Gholston, S., & **Tenhundfeld, N.L.** (2022). *Trust in Systems: Identification of 17 Unresolved Research Questions and the Highlighting of Inconsistencies*. Manuscript submitted.

Tenhundfeld, N.L., Forsyth, J., Sprague, N.R., El-Tawab, S., & Cotter♦, J.E. (2022). *In the rough: Evaluation of convergence across trust assessment techniques using an autonomous golf cart*. Manuscript submitted.

de Visser, E.J., Phillips, E., **Tenhundfeld, N.L.**, Donadio, B., Barentine, C., Kim, B., Madison, A., Ries, A., & Tossell, C.C. (2022). *Trust in Imperfect Automated Parking Systems: A Real-World Evaluation and an Owner’s Survey*. Manuscript submitted.

Tenhundfeld, N.L., Demir, M., & de Visser, E.J. (2022). Assessment of Trust in Automation in the ‘Real World’: Requirements for New Trust in Automation Measurement Techniques for Use by Practitioners. *Journal of Cognitive Engineering and Decision Making*. 1-18.

- Tenhundfeld, N.L., Barr*, H.M., O’Hear*, E.H., & Weger, K., (2022).** Is My Siri the Same as Your Siri? An Exploration of Users’ Mental Model of Virtual Personal Assistants, Implications for Trust. *IEEE Transactions on Human-Machine Systems*, 52(3), 512-521.
- Witt, J.K., Parnes♦, J.E., & **Tenhundfeld, N.L., (2020).** Wielding a gun increases judgments of others as holding guns: a randomized controlled trial. *Cognitive Research: Principles and Implications*, 5(58), 1 – 17.
- Tenhundfeld, N.L. & Witt, J.K. (2020).** Human and Machine: Evaluating whether action automation influences visual perception. *Attention, Perception, & Psychophysics*, 82(6), 3234-3249.
- Tenhundfeld, N.L., de Visser, E.J., Ries, A.J., Finomore, V.S., & Tossell, C.C. (2020).** Trust and distrust of automated parking in a Tesla Model X. *Human Factors*, 62(2), 194 – 210.
- Tenhundfeld, N.L., Parnes♦, J., Conner, B.T., & Witt, J.K. (2020).** Development of a psychometrically valid gun attitude scale. *Current Psychology*, 39(1), 279 - 286.
- Tenhundfeld, N.L., de Visser, E.J., Haring, K.S., Ries, A.J., Finomore, V.S., & Tossell, C.C. (2019).** Calibrating trust in automation through familiarity with the autoparking feature of a Tesla Model X. *Journal of Cognitive Engineering and Decision Making*, 13(4), 279 – 294.
- Laitin♦, E., Tymoski♦, M.J., **Tenhundfeld, N.L., & Witt, J.K. (2019).** The Uphill Battle for Action-Specific Perception. *Attention, Perception, & Psychophysics*, 81(3), 778 – 793.
- Witt, J.K., **Tenhundfeld, N.L., & Tymoski♦, M.R. (2018).** Is there a chastity belt on perception? *Psychological Science*, 29(1), 139-146.
- Tenhundfeld, N.L., & Witt, J.K. (2017).** Distances on hills look farther than distances on flat ground: Evidence from converging measures. *Attention, Perception, & Psychophysics*, 79(4), 1165-1181.
- King♦, Z.R., **Tenhundfeld, N.L., & Witt, J.K. (2017).** What you see and what you are told: Evidence for a genuinely perceptual action-specific effect. *Psychological Research*, 1-13.
- Witt, J.K., **Tenhundfeld, N.L., & Bielak, A.M. (2016).** Dissociating perception from judgment in the action-specific effect of blocking ease on perceived speed. *Attention, Perception, & Psychophysics*, 79(1), 283-297.

Witt, J.K., Sugovic, M., **Tenhundfeld, N.L.**, & King♦, Z.R. (2016). An action-specific effect on perception that survives all pitfalls. *Behavioral and Brain Sciences*, 39.

Tenhundfeld, N. L. & Witt, J.K. (2015). The effects of interoceptive attunement on action-specific perception. *Visual Cognition*, 23(7), 837-840.

Peer-Reviewed Conference Proceedings (♦ denotes graduate student, * denotes undergraduate)

Barr♦, H.M., Cotter♦, J.E., O’Hear♦, E., Gray♦, C., Chesser♦, A., Atchley♦, A., Smitherman*, R.C., & **Tenhundfeld, N.L.** (2022). Individual Differences in Misremembering Fake News on Social Media. In *Proceedings of the Annual Human Factors and Ergonomics Society Conference*.

Tenhundfeld, N.L., Davis, J., & Hubler, M. (2022). Success by Undesirable Means: Differences in Trust Following Successful (Yet Deviant) Flight Path Adherence. In *Proceedings of the Annual Human Factors and Ergonomics Society Conference*.

Atchley♦, A., Barr♦, H.M., O’Hear♦, E., Gray♦, C., Chesser♦, A., Jones, N., & **Tenhundfeld, N.L.** (2022). Does My Driver Share My Moral View? Effects of Humanlikeness and Morality in an Adapted Trolley Problem. In *Proceedings of the Annual Human Factors and Ergonomics Society Conference*.

O’Hear♦, E., Atchley♦, A., Gholston, S., Weger, K., Mesmer, B., & **Tenhundfeld, N.L.** (2022). System-Wide Trust: The Impact of an Error in a Multi-component System. In *Proceedings of the Annual Human Factors and Ergonomics Society Conference*.

Weger, K., Easley♦, T., Branham♦, N., **Tenhundfeld, N.L.**, & Mesmer, B., (2022). Individual Differences in the Acceptance and Adoption of AI-enabled Autonomous Systems. In *Proceedings of the Annual Human Factors and Ergonomics Society Conference*.

Cotter♦, J.E., O’Hear*, E., Smitherman* R.C., Bright*, A., Forsyth, J., Sprague, N.R., El-Tawab, S. & **Tenhundfeld, N.L.** (2022). Convergence Across Behavioral and Self-Report Measures Evaluating Individuals’ Trust in an Autonomous Golf Cart. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.

- Barr♦, H.M., Smitherman*, R.C., Weger, K., Mesmer, B.L., Menon, V., Semmens, R., Van Bossuyt, D. & **Tenhundfeld, N.L.** (2022). Use, Acceptance, and Adoption of Automated Systems with Intrinsic and Extrinsic Motivation Based Incentive Mechanisms. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Chesser*, A., Bramlett*, K.M., Atchley♦, A., Gray♦, C.E., & **Tenhundfeld, N.L.** (2022). Virtual Personal Assistant Design Effects on Memory Encoding. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Gray♦, C., Chesser*, A., Atchley♦, A., Smitherman*, R.C. & **Tenhundfeld, N.L.** (2022). Humanlikeness and Aesthetic Customization Implications for Affect, Attachment, Trust, and Performance. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Tenhundfeld, N.L.**, Barr♦, H.M., O’Hear*, E., Atchley*, A., & Cotter♦, J.E. (2021). Effects of Human-Likeness on Robot Use in High-Risk Environments. In *Proceedings of the Human Factors and Ergonomics Society Conference*.
- Arestides*, A., Gurchiek*, T., Harold*, S., Chang*, K., Madison, A., Ries, A.J., **Tenhundfeld, N.L.**, Phillips, E., de Visser, E.J., & Tossell, C.C. (2021). The Design and Integration of a Comprehensive Measurement System to Evaluate Trust in Automated Vehicle Features. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Flynn♦, M., Smitherman*, H.M., Weger, K., Mesmer, B., Semmens, R., Van Bossuyt, D., & **Tenhundfeld, N.L.** (2021). Incentive Mechanisms for Acceptance and Adoption of Automated Systems. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Cotter♦, J., Atchley*, A., Banz, B.C., & **Tenhundfeld, N.L.** (2021). Is my User Impaired? Designing Adaptive Automation that Monitors the User’s State. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Matsuyama♦, L., Zimmerman*, R., Eaton♦, C., Weger, K., Mesmer, B., **Tenhundfeld, N.L.**, Van Bossuyt, D., & Semmens, R. (2021). Determinants that are believed to influence the acceptance and adoption of mission critical autonomous systems. In *Proceedings of the AIAA SciTech Forum*.

- Gillmore, S. & **Tenhundfeld, N.L.** (2021). The Good, The Bad, and The Ugly: Evaluating Tesla's Human Factors in the Wild West of Self-Driving Cars. In *Proceedings of the Human Factors and Ergonomics Society Conference*.
- Tenhundfeld, N.L.**, Phillips, E.K., & ♦Davis, J.R. (2021). Robot Career Fair: An Exploratory Evaluation of Anthropomorphic Robots in Various Career Categories. In *Proceedings of the Human Factors and Ergonomics Society Conference*.
- Simon*, H.M., Smitherman*, H.M., Atchley*, A., Davis♦, J.R., & **Tenhundfeld, N.L.** (2020). Nuts and Bolts About You: Finding the Right Match for Gendered Robots. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Davis♦, J.R., Atchley*, A., Smitherman*, H.M., Simon*, H.M., & **Tenhundfeld, N.L.** (2020). Measuring Automation Bias and Complacency in an X-Ray Screening Task. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Haring, K.S., Tobias*, J., Waligora*, J., Phillips, E., **Tenhundfeld, N.L.**, Lucas, G., de Visser, E.J., Gratch, J., & Tossell, C.C. (2019). Conflict mediation in human-machine teaming: Using a virtual agent to support mission planning and debriefing. In *Proceedings of the 28th IEEE International Conference on Robot and Human Interactive Communication (Ro-Man 2019)*.
- Tossell, C.C., Donadio, B.T., Stewart, A., **Tenhundfeld, N.L.**, Phillips, E., Driggs, J., Haring, K.S., & de Visser, E.J. (2019). Human Factors Capstone Research at the United States Air Force Academy. In *Proceedings of the Human Factors and Ergonomics Society Conference*.
- Alexander*, S., Rozo*, J., Donadio, B.T., **Tenhundfeld, N.L.**, de Visser, E.J., & Tossell, C.C. (2019). Transforming the Air Force mission planning process with virtual and augmented reality. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.
- Lorenz*, G.T., Ehrenstrom*, J.S., Ullman*, T.B., Palmer*, R.C., **Tenhundfeld, N.L.**, de Visser, E.J., Donadio, B.T., & Tossell, C.C. (2019). Assessing control devices for the supervisory control of autonomous wingmen. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.

Tomczak*, K., Pelter*, A., Gutierrez*, C., Stretch*, T., Hilf*, D., Donadio, B.T., **Tenhundfeld, N.L.**, de Visser, E.J., & Tossell, C.C. (2019). Let Tesla park your Tesla: Driver trust in a semi-automated car. In *Proceedings of the annual Systems and Information Engineering Design Symposium (SIEDS) Conference*.

Tenhundfeld, N.L., de Visser, E.J., Tossell, C.C., & Finomore, V.S. (2018). Evaluating and Modeling Human-Machine Teaming and Trust in Automation while on the Road. In *Proceedings of the 2nd International Neuroergonomics Conference*.

Haring, K. S., Finomore, V., Muramoto*, D., **Tenhundfeld, N. L.**, Redd, M., Wen, J., & Tidball, B. (2018). Analysis of Using Virtual 4Reality (VR) for Command and Control Applications of Multi-Robot Systems. In *Proceedings of the 1st International Workshop on Virtual, Augmented, and Mixed Reality for HRI (VAM-HRI)*.

Book Chapters (*denotes graduate student, * denotes undergraduate)

Tenhundfeld, N.L., Rowe, J., & Franco-Zamudio, J. L. (2014). Achievement. In *Encyclopedia of Critical Psychology*. (pp. 18-20). Springer New York.

Gonzalez*, V., **Tenhundfeld, N.L.**, Dominguez*, C., & Franco-Zamudio, J. L. (2014). Collaboration. In *Encyclopedia of Critical Psychology* (pp. 254-256). Springer New York.

Shevlin*, A., **Tenhundfeld, N.L.**, Gonzalez*, V., & Franco-Zamudio, J. L. (2014). Domestic Violence, Overview. In *Encyclopedia of Critical Psychology* (pp. 484-487). Springer New York.

Zeringue*, M., Cline*, K., **Tenhundfeld, N.L.**, & Franco-Zamudio, J. L. (2014). Coping, Overview. In *Encyclopedia of Critical Psychology* (pp. 322-324). Springer New York.

Peltier*, C., Wilson*, C., Williford*, W., **Tenhundfeld, N.L.**, & Franco-Zamudio, J. L. (2014). Volunteerism. In *Encyclopedia of Critical Psychology* (pp. 2068-2072). Springer New York.

Other Invited Scholarly Activities

Tenhundfeld, N.L. & Demir, M. (2020). *Do you trust your parachute? A call to study human-machine teaming in uncontrolled environments*. Invited submission for the U.S. Navy Aerospace Experimental Psychology Society's Call Signs.

Media Appearances

Ep. 3: Nate Tenhundfeld (September 20, 2021) *Many Things in Why Podcast*.
[Link](#)

Here's Where AI Has Taken Over the Clinic – Automation is now used in everyday healthcare tasks, but it's not as Sci-Fi as one might image (December 15, 2020). *MedPage Today*.
[Link](#)

Trust in Automation (March 22, 2020). *The Measure of Everyday Life* on WNCU.
[Link](#)

How Your Body Changes Your Visual Perception as You Walk (June 15, 2017).
Psychology Today.
[Link](#)

Conference Presentations (♦ denotes graduate student, * denotes undergraduate)

Menon, V., **Tenhundfeld, N.L.**, Weger, K., Mesmer, B., & Gholston, S. (2021). *Comprehensive Study on the Use of AI-Driven Autonomous Systems in Dynamic Environments for Military Applications*. Talk given at the Reliability and Maintainability (RAM) Training Summit, hosted by Huntsville chapter of Society of Reliability Engineers, Huntsville, AL.

Weger, K., **Tenhundfeld, N.L.**, Menon, V., Mesmer, B., & Gholston, S. (2021). *Insight into the Acceptance and Adoption of Autonomous Systems by Military Personnel*. Talk given at the Reliability and Maintainability (RAM) Training Summit, hosted by Huntsville chapter of Society of Reliability Engineers, Huntsville, AL.

Tenhundfeld, N.L., Weger, K., Menon, V., Mesmer, B., & Gholston, S. (2021). *Teaming and Trust: Influences of Design on Operator Cognition*. Talk given at the Reliability and Maintainability (RAM) Training Summit, hosted by Huntsville chapter of Society of Reliability Engineers, Huntsville, AL.

Sullivan[♦], J., **Tenhundfeld, N.L.**, & Torres, A. (2021). *Effects of Time Pressure, Cognitive Anchoring, and Social Priming on Trust Towards Computers in an Online Investment Game Paradigm*. Talk given at the annual American Psychological Society meeting, Online.

Matsuyama[♦], L., Weger, K., Mesmer, B., **Tenhundfeld, N.L.**, Van Bossuyt, D., & Semmens, R. (2020). *Autonomous Systems Adoption Challenges and Requirements Management Solutions*. Presentation given at JIFX 20-4 Technology Expo, Online.

Davis[♦], J.R., Smitherman*, H., & **Tenhundfeld, N.L.** (2020). *Effects of Robotic Anthropomorphic Design on Industry Category Fit*. Poster presented at *UX Rising*, Huntsville, AL.

Katrein, S. P., Driggs, J.B., Phillips, E.K., Ries, A.J., Haring, K.S., Seech, T.R., **Tenhundfeld, N.L.**, de Visser, E.J., & Tossell, C.C. (2019). *Human factors research in USAFA's Warfighter Effectiveness Research Center*. Poster presented at the annual meeting of the *Human Factors Engineering Technical Advisory Group (HFE TAG)*, Aberdeen Proving Ground, MD.

Lorenz*, G.T., Ehrenstrom*, J.S., Ullman*, T.B., **Tenhundfeld, N.L.**, Neigel, A.R., de Visser, E.J., Donadio, B.T., & Tossell, C.C. (2019). *Autonomous Wingman: Examining Workload Differences Between Control Devices in the Supervisory Control of Unmanned Aerial Systems*. Poster presented at the annual meeting of *The Rocky Mountain Psychological Association*, Denver, CO.

Titus*, C., Hammond*, P., **Tenhundfeld, N.L.**, Tossell, C.C. (2019). *Optimizing airman running performance and cognition using real-time feedback from wearable sensors*. Poster presented at the annual meeting of the *Rocky Mountain Psychological Association*, Denver, CO.

Lorenz*, G.T., Ehrenstrom*, J.S., Ullman*, T.B., **Tenhundfeld, N.L.**, Neigel, A.R., de Visser, E.J., Donadio, B.T., & Tossell, C.C. (2019). *Autonomous Wingman: Examining Workload Differences Between Control Devices in the Supervisory Control of Unmanned Aerial Systems*. Poster presented at the annual meeting of *Human Factors and Applied Psychology*, Orlando, FL.

Tenhundfeld, N.L., Haring, K.S., Wen, J., Finomore, V., & Tossell, C. C. (2018). *Integration of Muse Headband EEG System to Detect Workload and G-Force Induced Loss of Consciousness (GLOC)*. Poster presented at the annual meeting of *Applied Human Factors and Ergonomics*, Orlando, FL.

Moorehead*, N.R., Getlinger*, M., Strang, A., **Tenhundfeld, N.L.**, Finomore, V.S., & Tossell, C.C. (2018). *Augmenting Airmen Endurance Performance Using Real-Time Physio-behavioral Feedback*. Poster Presented at the annual meeting of *Human Factors Engineering Technical Advisory Group (HFE TAG)*, Hurlburt Field, FL.

Laitin♦, E.L., Tymoski♦, M.J., **Tenhundfeld, N.L.**, & Witt, J.K. (2018). *Distances Appear Farther on Hills: Evidence for Top-Down Effects*. Poster presented at the annual meeting of the *Vision Science Society*, St. Pete Beach, FL.

Fitzgerald*, N.J., **Tenhundfeld, N.L.**, & Witt, J.K. (2018). *Failure is Not an Option: Testing the Effects of Automation Failure on the Perceptual System*. Poster presented at the annual meeting of the *Vision Science Society*, St. Pete Beach, FL.

Elliot*, A., Finomore, V.S., Tripp, L., **Tenhundfeld, N.L.**, & Tossell, C.C. (2018). *Comparison of the Heart Rate Capabilities of the Jabra Sport Plus Special Edition Headphones with Valencell Heart Rate Headphones*. Poster presented at the annual meeting of the *Rocky Mountain Psychological Association*, Denver, CO.

Moorehead*, N.R., Strang, A., **Tenhundfeld, N.L.**, Finomore, V.S., & Tossell, C.C. (2018). *Augmenting Human Endurance Performance Using Real-Time Feedback*. Poster presented at the annual meeting of the *Rocky Mountain Psychological Association*, Denver, CO.

Tenhundfeld, N.L., Crandell*, A., McClernon, C., & Finomore, V. (2017). *Motion seat use in flight simulators for new pilots*. Poster presented at the annual meeting of the *International Symposium on Aviation Psychology*, Dayton, OH.

Tenhundfeld, N.L. & Witt, J.K. (2017). *An uphill battle: Distances are reported as farther on a hill even when immediate feedback about estimation accuracy is provided*. Poster presented at the annual meeting of the *Vision Science Society*, St. Pete Beach, FL.

Witt, J.K., **Tenhundfeld, N.L.**, Janzen♦, M.R., Tymoski♦, M.T., & Wilmer, J. (2017). *Action-specific effects in perception and their mechanisms*. Poster presented at the annual meeting of the *Vision Science Society*, St. Pete Beach, FL.

Tymoski♦, M.T., **Tenhundfeld, N.L.**, Janzen♦, M.R., & Witt, J.K. (2017). *I cannot afford both: Walk-through-ability affordance judgments do not correlate to the distance-on-hill effect*. Poster presented at the annual meeting of the *Vision Science Society*, St. Pete Beach, FL.

- Janzen♦, M.R., **Tenhundfeld, N.L.**, Tymoski♦, M.T., & Witt, J.K. (2017). *Distance on hill overestimation is not influenced by hiking experience*. Poster presented at the annual meeting of the *Vision Science Society*, St. Pete Beach, FL.
- Tenhundfeld, N.L.** & Witt, J.K. (2016). *Three's company: Energetics' effect on perception as shown with blindwalking, Visual Matching, and Verbal Estimates*. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Janzen♦, M., **Tenhundfeld, N.L.**, & Witt, J.K. (2016). *That's so far! Experienced hikers also overestimate distances on a hill*. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Witt, J.K., King♦, Z.R., & **Tenhundfeld, N.L.** (2015). *Losing control in action-specific effects: Evidence for Bayesian integration*. Talk presented at Psychonomic Society Annual Meeting, Chicago, IL.
- Tenhundfeld, N.L.**, & Witt, J.K. (2015) The effects of interoceptive attunement on action-specific perception. Talk presented at Object Perception, Attention, and Memory Conference, Chicago, IL.
- King♦, Z.R., **Tenhundfeld, N.L.**, & Witt, J.K. (2015). *An action-specific perception effect that withstands feedback*. Poster presented at the Object Perception, Attention and Memory Conference, Chicago, IL.
- Tenhundfeld, N.L.** & Witt, J.K. (2015). *Perceptual distortions of distances on a hill depend on interoceptive awareness*. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- King♦, Z.R., **Tenhundfeld, N.L.**, & Witt, J.K. (2015). *An action-specific perception effect that withstands feedback*. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Witt, J.K., Conner, B.T., **Tenhundfeld, N.L.**, & Parnes♦, J.E. (2015). *Gun-embodiment biases on object perception are affected by prior experience*. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Tenhundfeld, N. L.** & Witt, J. K., (2014). *Informed perception: Catching ability changes perceived size of ball*. Poster presented at the annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.

Tenhundfeld, N.L., LaChute*, C., Martin*, E., Iglesias*, D. J., Cline*, K., Shevlin*, A., Babbington*, A., Himmel*, A., & Franco-Zamudio, J. L. (2013). *Identifying sources of academic self-efficacy among underrepresented undergraduates in the sciences*. Poster presented at the *Georgia Undergraduate Research in Psychology Conference*, Kennesaw, GA.

Sole Instructor Teaching Experience (* denotes online/hybrid)

Human Factors -- University of Alabama in Huntsville

Course Evaluation – Fall 2021: 4.56 (University average: 4.40)

Course Evaluation – Fall 2020: 4.72 (University average: 4.35)*

Course Evaluation – Fall 2019: 4.74 (University average: 4.42)

Human-AI Interaction -- University of Alabama in Huntsville

Course Evaluation – Spring 2022: Evaluation Unavailable (not enough responses)

Course Evaluation – Spring 2021: 4.69 (University average: 4.32)*

Human-Machine Teaming Design -- University of Alabama in Huntsville

Course Evaluation – Fall 2021: 4.79 (University average: 4.40)

Statistics -- University of Alabama in Huntsville

Course Evaluations – Spring 2022: 4.79 (University average: 4.43)

Course Evaluations – Fall 2021: 4.57 (University average: 4.40)

Course Evaluations – Fall 2020: 4.77 (University average: 4.35)*

Course Evaluations – Fall 2019: 4.59 (University average: 4.42)

Introduction to Psychology -- University of Alabama in Huntsville

Course Evaluation – Spring 2020: 4.71 (University average: 4.41)

Perception -- University of Alabama in Huntsville

Course Evaluation – Spring 2022: 4.84 (University average: 4.43)

Course Evaluation – Spring 2021: 4.71 (University average: 4.32)*

Course Evaluation – Spring 2020: 4.85 (University average: 4.41)

Applications of Psychology -- University of Alabama in Huntsville

Course Evaluation – Summer 2021: 4.44 (University average: 4.51)*

Course Evaluation – Spring 2021: 4.41 (University average: 4.32)*

Course Evaluation – Fall 2020: 4.54 (University average: 4.35)*

Course Evaluation – Summer 2020: 4.27 (University average: 4.55)*

Course Evaluation – Spring 2020: 4.67 (University average: 4.41)

Human Research I -- University of Alabama in Huntsville
Course Evaluation – Fall 2019: 5.00 (University average: 4.42)

Introduction to Behavioral Science -- US Air Force Academy
Course evaluations unavailable

Systems Engineering Capstone -- US Air Force Academy
Course evaluations unavailable

Behavioral Science Capstone -- US Air Force Academy
Course evaluations unavailable

Sensation & Perception -- Colorado State University
Course evaluations unavailable

Cognitive Psychology Lab -- Colorado State University
Course evaluations unavailable

Sensation & Perception Lab -- Colorado State University
Course evaluations unavailable

Ad Hoc Manuscript Reviewing Activity

Acta Psychologica

Ergonomics

Human Factors

Human Factors and Ergonomics in Manufacturing & Service Industries

Human Factors and Ergonomics Society Proceedings

Human-Robot Interaction

IEEE Transactions on Human Machine Systems

Journal of Cognitive Engineering and Decision Making

Journal of Experimental Psychology: Applied

Psychonomic Bulletin & Review

Social Science Journal

Ad Hoc Grant Reviewing Activity

Air Force Office of Scientific Research

Volunteer Positions / Service

Human Factors and Ergonomics Society (HFES) – Tennessee Valley Chapter
President (2021 – Present)
Vice President (2019 – 2021)

gener8tor (Startup Accelerator)
Mentor (2021 – Present)

PSI CHI Faculty Advisor (2019 – 2021)

APA Division 19 (Society for Military Psychology)
Student Affairs Committee (2016 – 2019)
Chair-Select (2016 – 2017)
Chair (2017 – 2018)
Past-Chair (2018 – 2019)
Regional Student Representative for the Western U.S. (2014 – 2015)

Graduate Students Advised

Andrew Atchley (*current*)
Hannah Barr (*current*)
Emily Bishop (*current*)
Addison Bright (*current*)
Amber Chesser (*current*)
Jenna Cotter (*current*)
Carly Gray (*current*)
Emily O’Hear (*current*)
Grace Oswald (*current*)
Cooper Smitherman (*current*)

Jake Davis (M.A., 2020)
Current Position: User Experience Researcher at Tektonux

Additional PhD Committees

2021

Warren de Witt (University of Alabama in Huntsville)
Computer Science

2018

Jaymen Elliott (University of Technology Sydney)
Psychology

Additional Masters Committees

2020

Jonathan Sullivan (University of Alabama in Huntsville)
Psychology

Christina Cabanas (University of Alabama in Huntsville)
Psychology

2019

Logan “Forest” Williamson (University of Alabama in Huntsville)
Psychology

Additional Comprehensive Exam Committees

2022

Michael Flynn (University of Alabama in Huntsville)
Psychology

Tamar Davis (University of Alabama in Huntsville)
Psychology

2020

Raashaun Jones (University of Alabama in Huntsville)
Psychology

Jake Theut (University of Alabama in Huntsville)
Psychology