Emily K. Parcell

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Doctor of Philosophy, Engineering Psychology	May 2026
Georgia Institute of Technology (GT)	GPA: 3.90
Master of Science, Human Factors	May 2021
Embry-Riddle Aeronautical University (ERAU)	GPA: 4.00
Bachelor of Science, Human Factors Psychology	December 2019
Embry-Riddle Aeronautical University	GPA: 3.94

PUBLICATIONS

Under Review:

EDUCATION

Parcell, E., Scott-Sharoni, S., Fereydooni, N., Walker, B., Lenneman, J., Austin, B., & Yoshida, T. (2023, October 23-27). A novel application of non-linear dynamics investigating cognitive workload and situational trust in highly automated vehicles. [Poster Presentation]. Human Factors and Ergonomics Society (HFES) 67th International Annual Meeting, Washington, D.C., United States.

Gleaton, E., Parcell, E., & Madera, M. (2023, October 23-27). Understanding user perspectives: What is the meaning of technology mastery? [Poster Presentation]. Human Factors and Ergonomics Society (HFES) 67th International Annual Meeting, Washington, DC, United States. Published/Presented:

Published/Presented:

Parcell, E., Patel, S., Chaparro, A., Severin, C., & Cho, Y. (2021, October 3-8). Distracted driving up close: Effects of driver distraction on vehicle control [Poster Presentation]. Human Factors and Ergonomics Society (HFES) 65th International Annual Meeting, Baltimore, Maryland, United States.

PROJECTS & RESEARCH

Technology Mastery Scale Development - GT Sonification Lab	2022
In progress - researching and developing a scale for general technology mastery and experti	se.
Self-efficacy and Technology Acceptance in Older Adults - GT Sonification Lab	2022
In progress - building a model to evaluate the role of self-efficacy in users' willingness to a advanced technologies, such as automated vehicles, through survey and interviews.	ccept
E-Commerce Usability Evaluation - Technoprise Global	2022
Contracted to provide statistical analysis and methodology guidance for a usability study	
evaluating E-Commerce platforms for users with disabilities.	
Consumer Education in Automated Driving - GT Sonification Lab	2021
In progress – creating and evaluating an AR/VR application to train drivers on safe use of	
advanced driver-assistance systems.	
Distracted Driving - ERAU Aging, Perception, & Performance Lab (APPL)	2021
Evaluated whether distracted driving (specifically cell phone use) can be indicated by variat	ion in
speed velocity and attempted to better quantify this variation in relation to current literature	
standards.	
EcoCAR - ERAU Mechanical Engineering Department	2021
Worked as part of the Human-Machine Interface/User Experience team to create an interact	ive
in-car training video for ride-sharing platforms to teach safe use of various autonomous feat	ures.
Pedestrian Orientation and Intention - ERAU APPL	2021
Evaluated whether pedestrian orientation or perceived intent affects how the driver allocates	s their
attention in the scene and how this information affects the driver's perceived safety of the	
environment using eye tracking and gaze behavior.	

- Classroom Ergonomic Evaluation Kumon of Daytona Beach Conducted an ergonomic evaluation of a classroom-style workplace, noted areas that could lead to work-related musculoskeletal disorders, and recommended changes based on results.
- Usability Testing Evaluation One Voice for Volusia 2019 Partnered with One Voice for Volusia to conduct usability testing on their website. Included work in personas/profiles, heuristic evaluations, facilitating, data analysis, and prototyping/redesign. 2018

Auto-shop Ergonomic Evaluation - Barker Tire Pros

Conducted a study to determine the cause of a musculoskeletal disorder in an automotive maintenance shop. Proposed a redesigned workplace and equipment improvements.

SKILLS

Statistical	Research
 Variance ANOVA/ANCOVA/MANOVA, T-test, Chi-Square Linear Regression 	 Human-Computer Interaction Methods Heuristic evaluation, journey mapping, personas, user testing, survey/interview,
• Simple, Multiple	usability/accessibility evaluation
 Structural Equation Modeling Path analysis, Factor analysis, Principal Components 	 Human Factors Methods Hierarchical Task Analysis, Cognitive Walkthrough, Repertory
Nonlinear dynamics	Grid Analysis, Technique for

- Time series analysis, Fractal 0 analysis, Lyapunov exponents
- Software •
 - SPSS, RStudio, EQS, Excel

- Human Error Assessment
- Physiological Measures ٠
 - Heart rate, eye tracking
- Design and Prototyping
 - Axure, Balsamiq, Figma

TEACHING EXPERIENCE

Lab Instructor - Georgia Institute of Technology	2023-Present
Sensation and Perception – design and teach lecture materials, organize lab experim	nents, grade
and design assignments.	
Teaching Assistant - Georgia Institute of Technology	2021-Present
Psychology Research Methods for Human-Computer Interaction - mentor teams of	first-year
graduate students to conduct a semester-long project focused on accessibility/usabi	lity.
Abnormal Psychology - grade assignments, provide technical support during lectur	e meetings,
and provide academic support to students.	
Sensation and Perception - grade assessments/assignments, provide academic supp	ort, and
conduct some lectures.	
Peer Mentor/Teaching Assistant - ERAU Office of Undergraduate Advising	2018-2020
Oversaw instruction in a college success skills class required for all incoming fresh created comprehensive academic study plans for each student.	nmen and

LEADERSHIP

Human Factors and Ergonomics Society – GT Chapter Secretary and Webmaster	2022-2023
Human Factors and Ergonomics Society – GT Chapter Vice President	2023-2024
GT Psychology Graduate Student Council First Year Mentor	2022-2023
GT Psychology Graduate Student Council Co-President	2023-2024

2020

ACCOMPLISHMENTS AND AWARDS

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