

# J. Collier Campbell

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LinkedIn

Seeking to apply skills and knowledge to contributions that improve the user experience and design of products which increase consumer perception of corporate quality.

## Experience

### **Human Factors Engineer | 2022-Present**

MITRE Corporation (Active Security Clearance)

*Most recent work:*

- **DOD Sponsor - Classified Work**
  - o *Led the UX design strategy by building mockups for a new UI to support modernization.*
  - o *Functions: sponsor meetings, operator interviews, creating personas, task analysis, writing user stories and requirements, and implementing feedback into UX designs.*
- **FDIC**
  - o *Led the human factors research strategy to support FDIC understanding of new technology.*
  - o *Functions: ran interviews, identified technological challenges, developed a plan the FDIC can use for internal education, and suggested ways HFES could support moving forward.*
- **DOD Sponsor - Classified Work**
  - o *Led the UX design strategy by creating designs for a UI to bolster DOD sponsor operations.*
  - o *Functions: creating UX mockups, collaborating with developers, interviewing and surveying operators, and meeting with and presenting to sponsors.*
- **Other Activities**
  - o *Contributed to departmental hiring and outreach, volunteered for internal research, traveled to sponsor sites, and mentored junior staff all while maintaining an active security clearance.*

### **Human Factors Researcher | 2018-2021**

Embry-Riddle Aeronautical University

- **Company Confidential (Contract, 2020)**
  - o *Wrote a technical report; developed, tested, and validated a self-generating ergonomic assessment tool/auto score calculator for a ground transportation manufacturer.*
- **Media Use and Driving (Research, 2019 – 2021)**
  - o *Surveyed participants under which circumstances they turn down or turn off their media while driving.*
- **In-Vehicle Technology (IVT) Learning Resources (August 2018 – 2021)**
  - o *Literature review accompanying a survey asking which learning resources (i.e., online articles, owner's manual) drivers use to learn about IVTs (i.e., backup camera, parking assist).*
- **Heuristic Development for Older Adult Websites (October 2018)**
  - o *Website usability heuristic in progress to evaluate websites commonly used by older adults (e.g., AARP, etc.)*
- **Teaching**
  - o *Introduction to Human Factors (Fall 2020)*
  - o *General Biology I Laboratory Instructor (Fall 2019, Spring 2020)*

## Education

### **Embry-Riddle Aeronautical University**

- *M.S. in Human Factors Psychology*

### **Texas Tech University**

- *B.A. in Psychology*

## Skills

Usability • Ergonomic Assessment • Focus Groups  
• Personas • Literature Reviews • Qualitative Research • Data Analysis • Empathy Mapping • NASA-TLX • REBA • RULA • Situational Awareness  
• Think Aloud • Interviews • Survey • Journey Mapping • Contextual Inquiry • Card Sorting • Quantitative Research

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## Software

- Adobe Xd; Figma; Balsamiq
- IBM SPSS; R Programming
- HTML; CSS
- Mac OS X; Windows

## Relevant Coursework

Human-Computer Interaction • Ergonomics • Human Factors Methods • Psychometrics • Research Design • Sensation & Perception • Multivariate Statistics

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## Research Presentations

Diamond, A., Smith, A., **Campbell, J.C.**, Ito, T., Chaparro, B., and Chaparro, A. (2019, April). *Rider Assist Technologies: Popular Types, Motivations for use, and Information Sources Consulted by Users*. Poster session presented at the Discovery Day Research Symposium, Daytona Beach, FL.

Diamond, A., Smith, A., **Campbell, J.C.**, Ito, T., Rice, S., Keebler, J., Chaparro, B., and Chaparro, A. (2018, November). *In-Vehicle Technologies (IVTs): Self-Reported use, learning, and perceived risk*. Poster session presented at the Florida Automated Vehicle Summit, Tampa, FL.

Diamond, A., Smith, A., **Campbell, J.C.**, Ito, T., Chaparro, B., and Chaparro, A. (2018, November). *Driver Perceptions of Advanced Driver Assistance Systems (ADAS): A Literature Review*. Poster session presented at the Florida Automated Vehicle Summit, Tampa, FL.

## Research Publications

Diamond, A., **Campbell, J.C.**, Rice, S., Chaparro, B., Chaparro, A. (2020). *In-vehicle technology: Ownership, perceived risk, and learning modality*. Manuscript submitted for publication.

Price, M., Alquist, J., **Campbell, J. C.**, Tonnu, K., & Flynn, T. (2017). *Early to bed and early to rise: The relationship between sleep hygiene and self-control*. Manuscript submitted for publication.

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## MITRE Awards

- Leadership and work excellence
- Assisting with department hiring activities
- Department outreach
- Volunteering to help with research
- Mentoring junior staff

## Hobbies

- Car repairs
- DIY projects
- Welding
- Drawing
- Weightlifting