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 (HFE) | 2022-Present

MITRE Corporation (Active Security Clearance)

Most recent impactful work:

DOD Sponsor (Mission Planning Operations, 2024-Present)

- o <u>Summary</u>: Led the UX strategy supporting UI modernization of DOD mission planning operations.
- o <u>Activities</u>: Designed UX mockups, led 4 interviews, created 3 personas, wrote user stories and requirements, developed a task analysis, and traveled to sponsor site.
- o <u>Outcomes</u>: Presented a newly designed UI combining current user duties and systems into one streamlined product meant to leverage automation and AI while keeping the human in the loop.

FDIC (2024)

- Summary: Led the human factors research strategy to support FDIC understanding of modern technology.
- o <u>Activities</u>: Ran 12 personnel interviews, analyzed organizational technological challenges, and developed a plan to be used for FDIC education with continued HFE support.
- o <u>Outcomes</u>: Delivered a qualitative data analysis of current challenges faced by FDIC employees regarding education, training, and learning resources for modern technology.

DOD Sponsor (Spectrum Operations, 2023-2024)

- o Summary: Led the UX design strategy of the development of a UI for DOD spectrum operations.
- o <u>Activities</u>: Designed UX mockups, collaborated with developers, produced and later analyzed 4 surveys, and ran 2 sponsor-site user interviews.
- o <u>Outcomes</u>: Successfully provided UX designs and user feedback for an entirely new UI launched in late 2024.

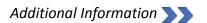
Other Activities (Ongoing)

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) 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) Surveyed participants to uncover which circumstances they turn down or turn off their media while driving.
- In-Vehicle Technology (IVT) Learning Resources (Research, 2018 2021) Literature review and survey on which learning resources (i.e., online articles, owner's manual) drivers use to learn about IVTs (i.e., backup camera, parking assist).
- Teaching Intro. to Human Factors (Fall 2020); Gen. Biology I Lab Instructor (Fall 2019, Spring 2020)



Education

Embry-Riddle Aeronautical University

M.S. in Human Factors Psychology (4.0 GPA)

Texas Tech University

B.A. in Psychology (3.25 GPA)

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

Software

- · Adobe Xd; Figma; Axure RP; 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

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.

MITRE Awards

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

<u>Hobbies</u>

- Cooking •
- Fitness •
- Woodworking
 - Reading •