






ECCENTRIC COG

Trey Roady, PhD, AHFP

UX Researcher
Human Factors Engineer
College Station, TX

 Trey@EccentricCog.net

 (On request)

 www.EccentricCog.net

Skills

UX / HCD:

Usability Testing
Heuristic Walkthrough,
Persona Analysis,
Work / Task Analysis,
Change Management,
Axure Prototyping

Ethnography:

Survey Development,
Qualtrics, mTurk,
Industrial Evaluation
Job Analysis
Contextual Inquiry

Programming:

C/C++, Python, R,
VBA, HTML, CSS

Systems Engineering:

Statistics, Optimization,
Quality Control,
Experimental Design,
Engineering Management,
Simulation,
AutoCAD Inventor

Professional:

Public Speaking, Debate
Technical Writing,
Spanish (basic)

Summary

Passionate advocate for human centered systems and translating user benefits into business goals. Blends qualitative research methods with strong quantitative background to define user pain points and drive lean and responsive experiences. Extremely comfortable combining insights from different fields. Notable experience with professional communication, mentorship, and group leadership. Believes strongly in bettering and empowering users by aligning incentives.

Education



PhD: Interdisciplinary Engineering

Focus: Human Factors & Cognitive Systems

BS: Industrial & Systems Engineering

Minor: Psychology

Career

Research Scientist, Seeing Machines Oct. 2018 - Present

- Human research & validation for AI machine vision systems

Post-Doctoral Researcher, ACE Lab May - Aug., 2018

- Lab manager for mixed methods research in telehealth, PTSD, & procedures.
- Project manager for investigation of medical interfaces & burnout in nursing

Research Assistant, HF&CS Lab May 2014 - Aug. 2015; May 2016 - Present

- Created FAA technology standards to support cognitive workload & wearables
- Developed systems-oriented mobile medical device design framework, SEIPS-m

Teaching Assistant, College of Engineering Aug. 2012 - May 2014

Aug. 2015 - May 2015

Aug. 2018 - May 2018

- Mentored 26 Senior Design groups in industry consultation; clients included Fortune 500 companies, NASA, and major hospital systems (2 sem.)
- Facilities Design & Material Handling (2 sem.), Statistical Quality Control (1 sem.), & Introduction to Engineering, Honors (2 sem.)
- Promoted to Lead TA

Student Tech. II, Human Factors & Cognitive Systems Lab Oct. 2011 - Aug. 2012

- Developed: a novel vibrotactile communication interface supporting stress & mental workload.
- Designed, ran, analyzed, and presented 5 user subject studies

Honors

Outstanding Student Member, Texas A&M HFES Apr. 2017

Winner & Best Presentation: UX Guerilla Design Challenge, HFES Sept. 2016

Student Observer: HFES Executive Council Meeting Apr. 2015

Student Travel Award, Houston HFES Oct. 2014

* Best Student Paper: HFES Perception & Performance TG Oct. 2013

Student Travel Honorarium: HFES Council of Technical Groups Oct. 2013

Undergraduate Research Scholar May 2012

Mayfield Engineering Scholarship Aug. 2008 - May 2014

President's & Class of '89 Endowed Scholarships Aug. 2007 - Aug. 2008


National Merit Scholar





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Organizations

Board Certification in Professional Ergonomics, Associate Human Factors Professional	2016 - Present
Human Factors and Ergonomics Society, Student Member	2011 - Present
Houston Chapter, Student Member	2013 - Present
Texas A&M University Chapter, President	2014 - 2016
<ul style="list-style-type: none">Founded chapter, which received Silver award status first two years; now gold	
Cepheid Variable, Member	2007 - Present
Head Security Officer, AggieCon 47	Mar. 2016
<ul style="list-style-type: none">Recruited, trained, and supervised 15 security workers for 500 guest, 3 day conventionCommended by attendees for professionalism and customer service of volunteer staff	
Student Development Officer	2011 - 2012
<ul style="list-style-type: none">Recruitment numbers broke fire code 4 meetings in a rowManaged formal mentorship program for 30 students	
Student Mentor	2010 - 2016

Publications

Theses

1. Roady, T. (2012) An analysis of static, dynamic, and apparent motion vibrotactile stimuli. Texas A&M University. (Optional undergraduate research thesis)

Journal Articles

1. Tippey, K., Roady, T., Rodriguez-Paras, C., Ferris, T.K., Brown, L., and Rantz, W. (In press). General Aviation Weather Alerting: The Effectiveness of Different Visual and Tactile Display Characteristics in Supporting Weather-Related Decision-Making. *International Journal of Aerospace Psychology*.

Peer-Reviewed Conference Proceedings

1. Dinakar, S., Tippey, K., Roady, T., Edery, J., and Ferris, T.K. (2016). Using modern social network techniques to expand link analysis in a nuclear reactor console redesign. Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting. Washington, DC. September.
2. Roady, T. and Ferris, T.K. (2014). Supporting speeded navigational communication via gesture-controlled vibrotactile displays. Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting. Chicago, IL. October.
3. Tippey, K. G., Sivaraj, E., Ardoin, W., Roady, T., and Ferris, T.K. (2014). Texting while driving using Google Glass: investigating the combined effects of heads-up display and hands-free input on driving safety and performance. Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting. Chicago, IL. October.
4. Roady, T. and Ferris, T.K. (2013). Supporting speeded navigational communication via gesture-controlled vibrotactile displays. Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting. San Diego, CA. October.
5. Roady, T., & Ferris, T. K. (2012). An Analysis of Static, Dynamic, and Saltatory Vibrotactile Stimuli to Inform the Design of Efficient Haptic Communication Systems. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 56, No. 1, pp. 2075-2079). SAGE Publications.