

Trey Roady, PhD, AHFP

UX Researcher Human Factors Engineer College Station, TX



Trey@EccentricCog.net



(on request)



www. Eccentric Cog. 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 Assistant, HF&CS Lab

May 2014 - Aug. 2015; May 2016 - Present

- Identified pilot demographic most likely to violate FAA standards. Created FAA technology standards to support cognitive workload
- 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

Student Tech. II, College of Architecture

July 2010 - May 2012

• Scripted controls 200 lab computers; Remote and in-person IT support & repair; Licensed Dell technician

Honors

	Outstanding Student Member, Texas A&M HFES		Apr. 2017
	Winner & Best Presentation: UX Guerilla Design Challenge, H	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 Gro	ups	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

2014 - 2016 Texas A&M University Chapter, President

Founded chapter, which received Silver award status first two years; now gold

Institute of Industrial Engineers, Student Member 2013 - Present

Cepheid Variable, Member 2007 - Present

Head Security Officer, AggieCon 47

Mar. 2016

Recruited, trained, and supervised 15 security workers for 500 quest, 3 day convention

Commended by attendees for professionalism and customer service of volunteer staff

Student Development Officer

2011 - 2012

• Recruitment numbers broke fire code 4 meetings in a row

• Managed 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. Sep-
- 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.