Joel Suss, Ph.D.

EMPLOYMENT			
2015	Assistant Professor: Human Factors Department of Psychology Wichita State University, Wichita, Kansas, USA		
EDUCATION			
2013	Doctor of Philosophy: Applied Cognitive Science and Human Factors Michigan Technological University, Houghton, Michigan, USA		
	Dissertation title: Using a prediction and option generation paradigm to understand decision making Advisor: Paul Ward		
2006	Bachelor of Behavioral Science (Honors): Psychology La Trobe University, Bundoora, Victoria, Australia		
	Honors Thesis title: Looking but not seeing: Visual search for security-related threats Advisor: Ross H. Day		
2005	Graduate Diploma: Psychological Studies Deakin University, Burwood, Victoria, Australia		
1997	Bachelor of Applied Science : Human Movement (Exercise and Sport Science) Deakin University, Burwood, Victoria, Australia		

GRANTS, AWARDS, & FELLOWSHIPS

Title	Awarding Agency	Dates	Amount
Graduate Research Assistantship Grant; Suss, J. (PI)	Psi Chi - The International Honor Society in Psychology	01/2013 - 05/2013	\$3,000
Graduate Research Grant; Suss, J. (PI), Ward, P. (co-PI)	Psi Chi - The International Honor Society in Psychology	01/2012 - 12/2012	\$1,485
Doctoral Dissertation Research Improvement Grant; Ward, P. (PI), Suss, J. (co-PI)	US National Science Foundation	07/2011 - 06/2013	\$13,920

RESEARCH EXPERIENCE (Paid Employment)

03/2014- 08/2015	Postdoctoral Fellow, Co-DOT Lab, School of Psychology, Laval University, Quebec City, Canada.
08/2013- 02/2014	Human Factors Analyst, Spectrum Software Technology, Egg Harbor Township, New Jersey, USA. (Contractor to US Federal Aviation Administration)
08/2010- 05/2013	Graduate Research Assistant (Applied Cognition and Expertise), Department of Cognitive and Learning Sciences, Michigan Technological University, Houghton, Michigan, USA.

08/2008- 08/2010	Graduate Research Assistant (Applied Cognition and Expertise), Department of Psychology, Florida State University, Tallahassee, Florida, USA.
08/2008- 08/2009	Graduate Research Assistant , Center for Expert Performance, Learning Systems Institute, Florida State University, Tallahassee, Florida, USA.
08/2007- 08/2008	Graduate Research Assistant , Florida Center for Research in Science, Technology, Engineering and Mathematics (FCR-STEM), Learning Systems Institute, Florida State University, Tallahassee, Florida, USA.
01/2007- 08/2007	Research Officer , Cognitive Decision Research Group, La Trobe University, Bundoora, Victoria, Australia.
05/2006- 12/2006	Research Assistant , Bushfire Cooperative Research Centre, La Trobe University, Bundoora, Victoria, Australia.
02/2006- 05/2006	Research Assistant , Center for Cognitive Work and Safety Analysis, Defense Science & Technology Organization, Fishermans Bend, Victoria, Australia.

PUBLICATIONS

Submitted for Peer Review

Raisbeck, L., **Suss, J.**, Petushek, E., Diekfuss, J., & Ward, P. (2015). *Failure under stress: A kinematic analysis.* Manuscript submitted for publication.

Accepted/In Press

Suss, J., Vachon, F, Lafond, D., & Tremblay, S. (2015). Don't overlook the human! Applying the principles of cognitive systems engineering to the design of intelligent video surveillance systems. *Proceedings of the IEEE International Conference on Advanced Video and Signal based Surveillance (AVSS), 12, XXX-XXX.*

Peer-reviewed Publications

- Pelletier, S., **Suss, J.**, Vachon, F, & Tremblay, S. (2015). Atypical visual display for monitoring multiple CCTV feeds. *Proceedings of the Annual ACM Conference on Human Factors in Computing (CHI)*, 33, 1145–1150.
- Ahlstrom, U., & **Suss**, **J.** (2015). Change blindness in pilot perception of METAR symbology. *International Journal of Industrial Ergonomics*, *46*, 44–58.
- Belling, P. K., **Suss, J.**, & Ward, P. (2015). The effect of time constraint on anticipation, decision-making, and option-generation in complex and dynamic environments. Cognition, Technology & Work, 17, 355–366.
- **Suss, J.**, & Ward, P. (2015). Predicting the future in perceptual-motor domains: Perceptual anticipation, option generation, and expertise. In J. L. Szalma, M. Scerbo, R. Parasuraman, P. A. Hancock, & R. R. Hoffman (Eds.), *The Cambridge handbook of applied perception research* (pp. 951–976). New York, NY: Cambridge University Press.

- **Suss, J.**, Belling, P. K., & Ward, P. (2014). Use of cognitive task analysis to probe optiongeneration in law enforcement. *Proceedings of the Human Factors and Ergonomic Society Annual Meeting, 58,* 280–284.
- Belling, P. K., **Suss, J.**, & Ward, P. (2014). Advancing theory and application of cognitive research in sport: Using representative tasks to explain and predict skilled anticipation, decision-making and option-generation behavior. *Psychology of Sport & Exercise*. doi:10.1016/j.psychsport.2014.08.001
- Belling, P. K., **Suss, J.**, & Ward, P. (2014). Cognitive processes supporting recognition in complex and dynamic tasks. *Human Factors and Ergonomics Society Annual Meeting Proceedings*, *58*, 290–294.
- McLennan, J., Strickland, R., Omodei, M., & **Suss, J.** (2014). Stress and wildland firefighter safety-related decisions and actions. In C. Owen (Ed.), Human factors challenges in emergency management: Enhancing individual and team performance in fire and emergency services (pp. 19–34). London, UK: Ashgate.
- **Suss, J.**, & Ward, P. (2013). Investigating perceptual anticipation in a naturalistic task using a temporal occlusion paradigm: A method for determining optimal occlusion points. *Human Factors and Ergonomics Society Annual Meeting Proceedings*, *57*, 304–308.
- McLennan, J., Strickland, R., Omodei, M., & **Suss, J.** (2013). Wildfire safety-related decisions and actions: Lessons from stress and performance research. *International Association of Wildland Fire Safety Summit Proceedings*, *12*, 33–45.
- **Suss, J.**, & Ward, P. (2012). Use of an option generation paradigm to investigate situation assessment and response selection in law enforcement. *Human Factors and Ergonomics Society Annual Meeting Proceedings*, *56*, 297–301.
- Petushek, E., **Suss, J.**, Ward, P., & Roemer, K. (2012). The effects of attentional resource allocation and skill level on movement variability and performance during a handgun shooting task. *Journal of Sport and Exercise Psychology, 34*, S121–S122.
- Ward, P., Suss, J., Eccles, D. W., Williams, A. M., & Harris, K. R. (2011). Skill-based differences in option generation in a complex task: A verbal protocol analysis. *Cognitive Processing*, 12, 289–300.
- McLennan, J., Elliott, G., Omodei, M., McNeill, I., Dunlop, P., & Suss, J. (2011). Bushfire survival-related decision making: What the stress and performance research literature tells us. In R. P. Thornton (Ed.), *Proceedings of the Bushfire CRC & AFAC 2011 Conference Science Day* (pp. 307–319). Melbourne, Australia: Bushfire Cooperative Research Center.
- **Suss, J.**, & Ward, P. (2010). Skill-based differences in the cognitive mechanisms underlying failure under stress. *Human Factors and Ergonomics Society Annual Meeting Proceedings*, 53, 1062–1066.
- Ward, P., Harris, K. R., Eccles, D. W., **Suss, J.**, & Ehrlinger, J. (2010). Domain-general, domain-specific and study-related predictors of performance in Advanced Placement science. *Proceedings paper presented at the Annual Meeting of the American Education Research Association*, Denver, CO. 30 April–4 May, 2010.

- Ward, P., **Suss, J.**, & Basevitch, I. (2009). Expertise and expert performance-based training (ExPerT) in complex domains. *Technology, Instruction, Cognition and Learning, 7*, 121–146.
- McLennan, J., Birch, A., Cowlishaw, S., & **Suss, J.** (2007). Save that brigade! Recruiting and retaining fire service volunteers to protect your community. In J. Handmer & K. Haynes (Eds.), *Community bushfire safety* (pp. 157–168). Melbourne, Australia: CSIRO Publishing.

Technical Reports

- Ahlstrom, U., & **Suss, J.** (2014). *Now you see me, now you don't: Change blindness in pilot perception of weather symbology* (Report No. DOT/FAA/TC-14/16). Washington, DC: Federal Aviation Administration.
- Suss, J. (2007). Annotated bibliography summarising material related to fire service volunteering by people from non-english speaking backgrounds (NESB) and cultural and linguistic diversity (CALD) backgrounds (Report 1:2007). Melbourne, Australia: Bushfire Cooperative Research Centre.
- McLennan, J., Birch, A., Cowlishaw, S., & **Suss, J.** (2007). *Retaining fire service volunteers* (AFAC Volunteer Management Sub-group Report No. 2007:2). Melbourne, Australia: Bushfire Cooperative Research Centre.

PRESENTATIONS

Professional Lectures

- **Suss, J.** (2011, March). Failure under pressure: Is performance moderated by attentional focus and skill level? *Graduate School Colloquium*. Michigan Technological University, Houghton, Michigan, USA.
- **Suss, J.** (2010, December). Skill-based differences in the cognitive mechanisms underlying failure under stress. *Applied Cognitive Science and Human Factors Brown Bag Seminar*. Michigan Technological University, Houghton, Michigan, USA.
- **Suss, J.** (2010, April). Failure under pressure: Is performance moderated by attentional focus and skill level? *Department of Psychology Graduate Research Day*. Florida State University, Tallahassee, Florida, USA.
- **Suss, J.** (2009, October). Shooting and attention: A research study. *High Liability Instructor Conference*. Florida Institute of Public Safety, Quincy, Florida, USA.

Poster Presentations

Suss, J. (2010, September). Skill-based differences in the cognitive mechanisms underlying failure under stress. *Capital Campaign*. Michigan Technological University, Houghton, Michigan, USA.

	TEACHING EXPERIENCE
08/2015- 12/2015	Lecturer, Department of Psychology, Wichita State University, Wichita, Kansas, USA. Course:
	PSY322: Cognitive Psychology (Fall 2015)
08/2012- 12/2012	Lecturer, Department of Cognitive and Learning Sciences, Michigan Technological University, Houghton, Michigan, USA. <i>Course:</i>
	PSY4010: Cognitive Psychology (Fall 2012)
08/2010- 05/2012	Co-Lecturer, Department of Cognitive and Learning Sciences, Michigan Technological University, Houghton, Michigan, USA. Courses:
	PSY3850: Human Factors Psychology (Fall 2010, 2011) PSY3860: Human Performance (Spring 2011, 2012)
08/2009- 08/2010	Graduate Teaching Assistant, Psychology Department, Florida State University, Tallahassee, Florida, USA. Courses:
	EXP3604C: Cognitive Psychology Lab (Fall 2009, Spring/Summer 2010)
	RECOGNITION, MERIT, & HONORS
2014	Certificate of Excellence, UX Leadership Development Workshop @ HFES 2104
2013	Graduate Research Colloquium Oral Presentation Award (1st place), Michigan Technological University
2013	Outstanding Teaching Award, Michigan Technological University
2012	Human Factors and Ergonomics Society Council of Technical Groups Student Travel Honorarium
2012	Summer Institute on Bounded Rationality, Max Planck Institute for Human Development, Berlin, Germany
2012	Outstanding Scholarship Award, Michigan Technological University
2011	Human Factors and Ergonomics Society Student Member with Honors Award
2011	Graduate Research Colloquium Oral Presentation Award (2 nd place), Michigan Technological University
2010	Awarded membership of Psi Chi –The International Honor Society in Psychology
2009	Nominee, University Fellowship, Florida State University
2006	Honors degree in Psychology, La Trobe University
1997	Golden Key National Honor Society Scholarship, Deakin University
1997	Head of School Scholarship, Deakin University
1996-1997	Gordon Council Scholarship, Deakin University
1996	Melbourne Co-operative Bookshop Prize, Deakin University

PROFESSIONAL ACTIVITIES AND SERVICE		
2012-2013	<i>Member</i> , Task Force on Impact of Federal Spending on the Human Factors and Ergonomics Society	
2011-2013	President, Michigan Technological University Student Chapter of the Human Factors and Ergonomics Society	
2011	Member, Conference Organizing Committee, NDM 2011: The 10 th International Conference on Naturalistic Decision Making	
2011	Co-Organizer, Doctoral Consortium, NDM 2011: The 10 th International Conference on Naturalistic Decision Making	
2010	Volunteer Reviewer, Human Factors and Ergonomics Society 54th Annual Meeting	

REVIEWING ACTIVITY

Ergonomics: Ad hoc reviewer

Journal of Cognitive Engineering and Decision Making: Ad hoc reviewer

PROFESSIONAL MEMBERSHIP

Human Factors and Ergonomics Society (HFES)

American Psychological Association (APA) Division 21 (Applied Experimental and Engineering Psychology)