

## Robert J Sall

[rsall@exponent.com](mailto:rsall@exponent.com)  
[www.linkedin.com/in/rjsall](http://www.linkedin.com/in/rjsall)

Phoenix, AZ  
rjsall.com

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### EDUCATION

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PhD., North Carolina State University (2020), **Human Factors & Applied Cognition.**

Advisor: Jing Feng

B.S., Florida State University (2013) **Psychology**; Honors in the Major

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### PUBLICATIONS AND PROCEEDINGS

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Feng, J., Sanchez, J., **Sall**, R.J., Lyon, J., Nam, C.S. (2019). Emotional Expressions Facilitate Human-Human Trust When Using Automation in High-Risk Situations. *Military Psychology*, 31(4), 292-305.

**Sall**, R. J., & Feng, J. (2019). Dual-target hazard perception: Could identifying one hazard hinder a driver's capacity to find a second? *Accident Analysis & Prevention*, 131, 213-224.

**Sall**, R.J. Choi, H., & Feng, J. (2018). Bringing Older Drivers up to Speed with Technology: Cognitive Changes, Training, and Advances in Transportation Technology. In McLaughlin, A.C., & Pak, R. (Eds), *Aging, Technology, and Health*. Elsevier.

**Sall**, R., Lefebvre, E., Neupert, S., & Feng, J. (2018). What Can Intraindividual Variability Teach Us About Dual-Target Visual Search? *Journal of Vision*, 18(10), 640-640.

**Sall**, R. J., Wu, S., Spence, I., & Feng, J. (2017). Destination, Seen Unclearly: Relevance of Head-Up Display Information to Driving Is Unrelated to Its Processing. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 61, No. 1, pp. 1899-1903). Sage CA: Los Angeles, CA: SAGE Publications.

**Sall**, R.J. & Feng, J. (2016). Better off Alone: The Presence of One Hazard Impedes Detection of Another in Simulated Traffic Scenes. *Proceedings of the Human Factors and Ergonomics Society 60th Annual Meeting*. Washington, DC: Human Factors and Ergonomics Society.

Boot, W., **Sall**, R., & Wright, T. (2014). The Effect of Simulated Red Light Running Camera Flashes on Attention and Oculomotor Control. *Journal of Vision*, 14(10), 327-327.

**Sall**, R. J., Wright, T. J., & Boot, W. R. (2014). Driven to distraction? The effect of simulated red light running camera flashes on attention and oculomotor control. *Visual Cognition*, 22, 57-73.

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### PROFESSIONAL EXPERIENCE

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**Scientist**, Exponent

2020-Present

Support expert witness testimony for civil litigation

Submitting and executing bids for federally funded research (e.g., NHTSA)

Ergonomic and usability studies for major technology companies

**UX Research Intern, BB&T**

Summer 2018

Moderated: think aloud, cognitive walkthroughs, structured interviews

Unmoderated usability testing: click tests, surveys, card sorting

Qualitative and quantitative data analysis

Collaborating with designers, software engineers, and operation managers to implement insights from research

Heuristic analysis, inspecting for compliance with standards for design with visually impaired users

**Research Assistant, North Carolina State University**

2017-2020

Contribute to theoretical discussions of cognitive deficits faced by older drivers

Develop experimental design, task, and stimuli, to test those hypotheses related to aging drivers

Manage undergraduate research assistants in data collection, and analysis

**Contracted Researcher, Dunlap and Associates, Inc.**

2018-2020

Co-authored RFP submissions

Assisted in contracted human factors field research (transportation domain)

**Teaching Assistant, North Carolina State University**

2015-2020

Introductory Psychology

Abnormal Psychology

Social Psychology

Biological Psychology

Biological Psychology- Spring 2019 primary instructor

**Instructor, Duke University's Talent Identification Program**

2016-2017

Courses Taught:

- Introductory psychology
- Food Psychology
- Cognition and creativity
- Social psychology
- Applied psychology

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**SKILL**

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Experimental Design

- Generating research questions, hypotheses and literature reviews
- Emphasis in visual search, decision making, cognitive training, and intraindividual variance
- Qualitative data (e.g., ethnographic observations, focus groups, think aloud protocols)
- Quantitative data (e.g., timing, accuracy, eye-tracking)

Statistical analysis (e.g., OLS regression, ANOVA, MLM)

- SPSS
- SAS
- R Studio

Experimental toolkit:

- PsyToolKit
- E-prime
- Qualtrics
- STISIM 3 driving simulator
- FaceLAB 5 eye-tracker

- Some experience implementing MATLAB packages

#### Prototyping and 3D modeling

- TinkerCad
- VCarvePro
- Sketchup

#### Human Factors Methodologies

- Formative usability analysis techniques (e.g., task analysis, cognitive walkthroughs, contextual observations)
- Summative usability testing (e.g., hypothesis testing for survey and behavioral a-b testing)
- Summative usability
- contextual observations
- multidimensional scaling for mental models
- Eye-tracking

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### **SERVICE**

Reviewer- Human Factors and Ergonomics Annual Meeting (2017 and 2018)  
 Guest Reviewer- *PLOS ONE* (under supervision of my advisor)  
 Newsletter Editor- APA Division 21 (2017-2018 academic year)  
 Newsletter Editor- HFES, Training Technical Group (2017-2018 academic year)  
 Outreach Chair- HFES Student Chapter, NCSU (2016)  
 Secretary- Graduate Association for Students in Psychology (2016)  
 Academic and Research Committee Chair- Pi Gamma Mu, FSU (2012)

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### **HONORS AND AWARDS**

Student Grant Award 2017- \$750 for best student proposal from the Human Factors and Ergonomics Society's Training Technical Group  
 Best student paper finalist- Recognized by the Surface Transportation Technical Group of the Human Factors and Ergonomics Society  
 Honors in the Major- Florida State University  
 Dean's List, Palm Beach State College (2009)  
 Dean's List, University of South Carolina, Beaufort (2008)

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### **CURRENT MEMBERSHIPS**

Human Factors and Ergonomics Society  
 American Psychological Association  
 Vision Science Society  
 American Association for the Advancement of Science

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### **RELEVANT GRADUATE COURSEWORK**

Statistics and general research methods (4 semesters) (STA511, PSY880.1, PSY880.2, PSY880.3-Multilevel Modeling)  
 Human Factors, Ergonomics, Human-Computer Interaction (3 semesters) (PSY541, PSY743, ISE 740)  
 Adulthood and aging: Cognitive and Intellectual Change  
 Skill Acquisition  
 Perception  
 Human Attention  
 Physiological Psychology

