

RACHEL JANE HOPMAN

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Education

Doctoral Candidate in Cognition and Neural Sciences <i>University of Utah, Salt Lake City, UT</i>	Degree Expected 2019
Master of Science in Cognition and Neural Sciences <i>University of Utah, Salt Lake City, UT</i>	May 2016
Bachelor of Science in Liberal Arts and Sciences, Distinction in Psychology <i>University of Illinois, Urbana-Champaign, IL</i>	May 2014

Research Interests

- Measure the influence of technology on attention and exposure to nature
- Assessment in the abilities of attention and cognitive distraction
- Evaluation of in-vehicle technology based on performance with interactions

Research Experience

Graduate Research Assistant - <i>Applied Cognition Laboratory, University of Utah</i>	2014-Present
<ul style="list-style-type: none">• Responsible for data collection, extraction and analysis, as well as quality control and staff training• Involved in behavioral data collection and analysis, as well as neuroimaging techniques (i.e., fMRI and EEG/ERP) and driving simulation	
Senior Thesis Research - <i>Decision Neuroscience Laboratory, University of Illinois</i>	2013-2014
<ul style="list-style-type: none">• Analyzed differences in younger and older adults of the ability to shift and divide attention	
Research Assistant - <i>Cognitive Neuroscience Laboratory, University of Illinois</i>	2012-2013
<ul style="list-style-type: none">• Completed literature comparison on brain atrophy in normal aging, learned FreeSurfer and MatLab	
Research Assistant - <i>Lifelong Brain and Cognition Laboratory, University of Illinois</i>	2011-2012
<ul style="list-style-type: none">• Head undergraduate researcher responsible for organized scheduling and contacting subjects	

Teaching Experience

Graduate Teaching Assistant – <i>Cognitive Psychology</i>	Fall 2016
<ul style="list-style-type: none">• Develop syllabus and overall course structure, and administer grades	

Publications

- Strayer, D.L., Cooper, J.M., Turrill, J., Coleman, J.R., & **Hopman, R.J.** (In Press). Talking to Your Car Can Drive You to Distraction. *Cognitive Research: Principles and Implications*.
- Strayer, D.L., Cooper, J.M., Turrill, J., Coleman, J.R., & **Hopman, R.J.** (2015). Measuring Cognitive Distraction in the Automobile III: A Comparison of Ten 2015 In-Vehicle Information Systems. *Washington, DC: AAA Foundation for Traffic Safety*.
- Strayer, D.L., Cooper, J.M., Turrill, J., Coleman, J.R., & **Hopman, R.J.** (2015). The Smartphone and the Driver's Cognitive Workload: A Comparison of Apple, Google, and Microsoft's Intelligent Personal Assistants. *Washington, DC: AAA Foundation for Traffic Safety*.
- Hopman, R.** (2014). *Shifting and dividing attention in older adults*. Bachelor's Thesis for Distinction, University of Illinois Urbana-Champaign Undergraduate Archives.

Fletcher, M.A., Boyd, R., Low, K., Schneider-Garces, N., Freeman, A., Northrup, E., **Hopman, R.**, Ventrella, C., Zimmerman, B., Tan, C.H., Gratton, G., & Fabiani, M. (2013). Relationship between cardiorespiratory fitness and hippocampal subfields anatomy in healthy older adults. *Cognitive Neuroscience Society*, 54, A107.

Conference Presentations

Turrill, J., Coleman, J.C., **Hopman, R.J.**, Cooper, J.M., & Strayer, D.L. (2016). *The Residual Costs of Multitasking: Causing Trouble Down the Road*. Presentation at the 2016 International Human Factors and Ergonomics Society, September, 2016. Washington, D.C.

Hopman, R.J., Carlson, C., Goodman, A., MacNamee, K., Weissinger, K., & Strayer, D. (2016). *Measuring Cognition in Nature - Effects of Distraction of Memory Performance*. Poster presentation at the 28th Annual Convention of the Association for Psychological Sciences, May, 2016. Chicago, IL.

Coleman, J.R., Turrill, J., **Hopman, R.J.**, Cooper, J.M., & Strayer, D.L. (2015). *Assessing Cognitive Distraction Using Event Related Potentials*. Presentation at the 8th International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, June, 2015., Salt Lake City, UT.

Hopman, R.J., Medeiros-Ward, N., & Barbey, A. (2014). *Shifting and Dividing Attention*. Poster presentation at the University of Illinois Urbana-Champaign Undergraduate Neuroscience Symposium, May, 2014. Champaign, IL.

Hopman, R.J., Medeiros-Ward, N., & Barbey, A. (2014). *Shifting and Dividing Attention in Older Adults*. Poster presentation at the University of Illinois Urbana-Champaign Capstone Psychology Distinction Symposium, April, 2014. Champaign, IL.

Hopman, R.J., Medeiros-Ward, N., & Barbey, A. (2014). *Shifting and Dividing Attention in Older Adults*. Poster presentation at the University of Illinois Urbana-Champaign Undergraduate Research Symposium, April, 2014. Champaign, IL.

Fletcher, M.A., Boyd, R., Low, K.A., Schneider-Garces, N., Freeman, A., Northrup, E., **Hopman, R.**, Ventrella, C., Zimmerman, B., Tan, C.H., Gratton, G., & Fabiani, M. (April 2013). *Relationship between Cardiorespiratory Fitness and Hippocampal Subfields Anatomy in Healthy Older Adults*. Poster Presentation at the University of Illinois College of Medicine 2013 Research Symposium, April, 2013. Champaign, IL.

Technical Experience

Proficient in EEGlab, SPSS, HLM, Neuroscan 4.5, M.S. Office, DRT
Experience with MatLab, TCL

Honors & Awards

2016 Graduate Student Travel Award
2014 Undergraduate Research Award
2014 Undergraduate Travel Grant Recipient

Professional Memberships and Service Experience

Human Factors and Ergonomic Society (HFES)
Association for Psychology Science (APS)
Undergraduate Psychology Association (UPA)
Undergraduate Neuroscience Society (UNS)
Cognition and Neural Sciences - Graduate Student Representative (2015 – 2017)
8th International Driving Symposium on Human Factors in Driver Assessment – Volunteer (2015)