

# JACK W SILCOX

## CURRICULUM VITAE

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### **EDUCATION**

2023 (expected)	Ph.D.	Cognitive & Neural Sciences, University of Utah, Salt Lake City, UT
2020	M.S.	Cognitive & Neural Sciences, University of Utah, Salt Lake City, UT
2018	M.S.	Applied Statistics, Loyola University Chicago, Chicago, IL
2016	B.S.	Neuroscience, Brigham Young University, Provo, UT

### **GRANTS AND AWARDS**

Spring 2020	<b>Frederick T. Rhodewalt Award for Innovative Scholarship,</b> Psychology Department, University of Utah Fund: \$1,000
Summer 2019	<b>Clayton Summer Research Fellowship,</b> Psychology Department, University of Utah Fund: \$5,500
2015-2016	<i>Assessing Diagnostic Capacity of Event Related Potentials In Mild Alzheimer's Disease</i> PI: Jack W Silcox <b>Office of Research and Creative Activities Research Grant</b> Brigham Young University Fund: \$1,500
2013-2014	<i>Assessing Gender Differences in Cognitive Processes Using Event Related Potentials</i> PI: Jack W Silcox

**Office of Research and Creative Activities Research Grant**  
Brigham Young University  
Fund: \$1,500

**PEER-REVIEWED PUBLICATIONS**

Payne, B.R., Silcox, J.W., Crandall, H.A., Lash, A., Ferguson, S.H., & Lohani, M. (under review). Text captioning buffers against the effects of background noise and hearing loss on memory for speech.

LoTempio, S., Silcox, J.W., Federmeier, K.D., & Payne, B.R. (under review). Inter- and intra-individual coupling between pupillary, electrophysiological, and behavioral responses in a visual oddball task.

O'Brien, T.E., & Silcox, J. (under review). Efficient Experimental Design for Dose Response Modelling.

Payne, B. R., & Silcox, J. W. (2019). Aging, context processing, and comprehension. *The Psychology of Learning and Motivation*, 215.

O'Brien, T.E., & Silcox, J. (2019): Practical Design Approaches for Assessing Parallelism in Dose Response Modelling. *Contemporary Biostatistics with Biopharmaceutical Applications. ICSA Book Series in Statistics*. Springer, Cham

Brown, B.L., Hendrix, S.B., Cecchi, M., Scott, J.M., Silcox, J.W., Brighton, K.D., & Hedges, D. (2015): A Novel Eigenvector-Based Method to Detect Mild Alzheimer's Disease Using Event-Related Potentials. *The Journal of Prevention of Alzheimer's Disease (JPAD)*.  
<http://dx.doi.org/10.14283/jpad.2015.79>

**RESEARCH PRESENTATIONS**

Stoker, J.<sup>1</sup>, Silcox, J., Mickey, B., & Payne, B. (2020) *Does the language production system play a role in predictive processes during language comprehension?* Spring Undergraduate Research Symposium at the University of Utah. Salt Lake City, UT

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<sup>1</sup> Undergraduate mentee

Anderson, J.<sup>2</sup>, Silcox, J., & Payne, B. (2020) *Does the linguistic context help to alleviate detrimental effects of effortful listening?* Spring Undergraduate Research Symposium at the University of Utah. Salt Lake City, UT

LoTemplo, S., Silcox, J., Federmeier, K., & Payne, B. (2019) *A test of coupling between electrophysiological and pupillary responses in a visual oddball task.* Snowbird Neuroscience Symposium 2019. Snowbird, UT

Silcox, J.W., Lopes, C., Mickey, B., & Payne, B. (2019) *The role of left inferior frontal cortex in memory for predictable and unpredictable words: An event-related rTMS study.* Snowbird Neuroscience Symposium 2019. Snowbird, UT. **Best graduate student poster award.**

LoTemplo, S., Silcox, J., Federmeier, K., & Payne, B. (2019) *A test of coupling between electrophysiological and pupillary responses in a visual oddball task.* 59th Annual Meeting of the Society for Psychophysiological Research. Washington, DC

Finlay, W.<sup>2</sup>, Silcox, J.W., & Payne, B.R. (2019) *The role of left inferior frontal gyrus in memory for predictable and unpredictable words: An event-related transcranial magnetic stimulation study.* Summer Undergraduate Research Symposium at the University of Utah. Salt Lake City, UT

Payne, B.R., Silcox, J., Lash, A., Ferguson, S.H., & Lohani, M. (2018). *Text captioning reduces the effects of perceptual effort on speech memory.* Annual Meeting of Psychonomic Society. 3.

Payne, B.R., Silcox, J., Lash, A., Ferguson, S.H., & Lohani, M. (2018). *Assistive text captioning offsets the effects of background noise on speech memory and pupillometry.* Academy of Rehabilitative Audiology Institute. 2018.

Brown, B.L., Hedges, D. and Silcox, J.W. 2016. *Whole-Wave EEG Analysis in the Identification of Neuropsychiatric Illness.* Presented at the Forty-First Annual Interdisciplinary Conference. Breckenridge, CO

Brown, Hendrix, Wolf, Silcox, Lloyd, Mickelson, and Hedges. 2014. *An Eigenvector-Based EEG Analysis Method for Diagnosing Neurodegenerative and Neuropsychiatric Diseases and for Monitoring and Assessing Treatment Response.* Presented at the BioUtah Summit. Salt Lake City, UT

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<sup>2</sup> Undergraduate mentee

## **RESEARCH EXPERIENCE**

- 2018 - Present      **Graduate Research Assistant for Dr. Brennan Payne**, University of Utah, Salt Lake City, UT
- 2017 - 2018      **Graduate Assistant for Dr. Timothy E. O'Brien**, Loyola University Chicago, Chicago, IL
- 2017 - 2018      **Graduate Assistant for Dr. Gregory Matthews**, Loyola University Chicago, Chicago, IL
- 2013 - 2016      **Research Assistant for Dr. Bruce Brown**, Brigham Young University, Provo, UT

## **CONSULTING EXPERIENCE**

- 2019 - 2020      **Experiment Programming Consultant for Jenna Alley (PhD Dissertation)**, University of Utah, Salt Lake City, UT
- 2017 - 2018      **Statistical Consultant for Phillip Whittington (Masters Thesis)**, Loyola University Chicago, Chicago, IL
- 2017      **Statistical Consultant for Kendra Frome (Masters Thesis)**, Northwestern University, Evanston, IL

## **TEACHING EXPERIENCE**

- March 2019      **Guest Lecturer**, Psychology as a Science & Profession, University of Utah, Salt Lake City, UT
- February 2019      **Guest Lecturer**, Human Factors, University of Utah, Salt Lake City, UT
- 2013 - 2015      **Teaching Assistant**, Brigham Young University, Provo, UT

Courses: Psych 111: General Psychology; Psych 210: History of Psychology; Psych 308: Psychological Statistics;

## **MENTORING EXPERIENCE**

### **Undergraduate Mentorship**

Mariah Erickson, UROP Program. Fall 2020. Psychology. University of Utah

Brett Smith, UROP Program. Fall 2019. Psychology. University of Utah

William Finlay, Summer Program for Undergraduate Research Mentor (co-mentor w/ Brennan Payne). Summer 2019. Linguistics. University of Utah.

## **HONORS**

April 2015                      Dean's List, College of Life Sciences; Brigham Young University

July 2011                      Director of the Month; Y-Serve Program; Brigham Young University

## **TRAININGS/WORKSHOPS COMPLETED**

Spring 2019                      **Undergraduate Research Mentor Development Program** hosted by the Office of Undergraduate Research at the University of Utah

## **COMPETITIONS**

April 2017                      **American Statistical Association Datafest** hosted by Loyola University Chicago, Chicago, IL

November 2016                      **House Prices: Advanced Regression Techniques** hosted by Kaggle.com

## **COMMUNITY SERVICE EXPERIENCE**

2011 - 2012                      **Y-Serve Program Director** for House of Hope; Brigham Young University