

LISA PAYNE
Curriculum Vitae

Rutgers University, Camden
Department of Psychology
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RESEARCH INTERESTS

Neural mechanisms of the willful suppression of irrelevant distraction; the interaction of selective attention and short-term memory; attentional biases for printed or spoken words; the role of expectancy in visual spatial attention.

EDUCATION

Ph.D., Neuroscience, Drexel University College of Medicine, Philadelphia PA (2009)

B.A., Psychology, East Stroudsburg University, East Stroudsburg PA (2003)

PROFESSIONAL APPOINTMENTS

2018 – present **Assistant Professor of Psychology**
Rutgers University, Camden NJ

2015 - 2018 **Visiting Assistant Professor of Psychology**
Swarthmore College, Swarthmore PA

2009 - 2015 **Post-doctoral Fellowship**
Brandeis University, Waltham MA

PUBLICATIONS

Fleck, J. I., Payne, L., Halko, C., & Purcell, M. (2019). Should we pay attention to eye movements? The impact of bilateral eye movements on behavioral and neural responses during the Attention Network Test. *Brain and cognition*, 132, 56-71.

Rogers, C.S., Payne, L., Maharjan, S., Wingfield, A. & Sekuler, R. (2018) Older Adults show impaired modulation of attentional alpha oscillations: Evidence from dichotic listening. *Psychology and Aging*, 33(2), 246-258.

Keller, A., Payne, L., Sekuler, R. (2017). Characterizing the roles of alpha and theta oscillations in multisensory attention. *Neuropsychologia*, 99, 48-63.

Payne, L., Rogers, C., Wingfield, A., & Sekuler, R. (2017). A right-ear bias of auditory selective attention is evident in alpha oscillations. *Psychophysiology*, 54(4), 528-535.

Green, D., Payne, L., Polikar, R., Moberg, P.J., Wolk, D.A., & Kounios, J. (2015). Auditory P50: A candidate ERP biomarker of prodromal Alzheimer's disease. *Brain Research*, 1624, 390-397.

Payne, L., & Sekuler, R. (2014). The importance of ignoring: Alpha oscillations protect selectivity. *Current Directions in Psychological Science*, 23(3), 171-177.

Payne, L., Guillory, S., & Sekuler, R. (2013). Attention-modulated alpha-band oscillations protect against intrusion of irrelevant information. *Journal of Cognitive Neuroscience*, 25(9), 1463-1476.

Dube, C., Payne, L., Sekuler, R., & Rotello, C. (2013). Paying attention to attention in recognition memory: Insights from models and electrophysiology. *Psychological Science* 24(12), 2398-2408.

Payne, L. & Kounios, J. (2009). Coherent Oscillatory Networks Supporting Short-Term Memory Retention. *Brain Research* 1247(9), 126-132.

Kounios, J., Green, D.L., Payne, L., Fleck, J.I., Grondin, R., & McRae, K. (2009). Semantic richness and the activation of concepts in semantic memory: Evidence from event-related brain potentials. *Brain Research*, 1282(1), 95-102.

Kounios, J., Fleck, J.I., Green, D.L., Payne, L., Frymiare, J.L., Bowden, E.M., & Jung-Beeman, M. (2008). The Origins of Insight in Resting-State Brain Activity. *Neuropsychologia*, 46, 281-291.

Fleck, J.I., Green, D.L., Stevenson, J.L., Payne, L., Bowden, E.M., Jung-Beeman, M., & Kounios, J. (2007). The Transliminal Brain at Rest: Baseline EEG, Unusual Experiences, and Access to Unconscious Mental Activity. *Cortex* 44(10), 1353 - 1363.

FUNDING

2020 Rutgers University Busch Biomedical Research Award, \$32,000
2006 Drexel University Critical Research Award, \$20,000

AWARDS AND HONORS

2017 Drexel College of Medicine Alumni Association Dean's Heritage Award
2015 Drexel Alumni Association Outstanding Teacher and Mentor Award
2010 Drexel Alumni Association Services to Graduate Programs and Student Body Award
2008 Drexel University Excellence in Teaching Award

Student Awards

2020 Joseph Johnson, Dean's Undergraduate Research Fund Grant.

CONFERENCE POSTERS and PRESENTATIONS

Payne, L., Jiwjinda, M., & Dubé, C. (2020). Cue-related alpha modulation during a semantic judgement task. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.

Payne, L., Labows, C., & Purcel, M. (2019). Does irrelevant speech suppress subvocal rehearsal? Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Keller, A., Payne, L., & Sekuler, R. (2016). Fronto-central theta oscillations as a marker of multisensory divided attention. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Payne, L., Rogers, C., Maharjan, S., Wingfield, A., & Sekuler, R. (2015). Older and younger adults can reduce the Cocktail Party effect by listening with the right ear. Poster presented at the Annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Keller, A., Payne, L., & Sekuler, R. (2015). When multiple modalities require attention, theta steps up to the plate. Poster presented at the Annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Noyce, A., Payne, L., & Sekuler, R. (2014). Short-term memory requires stable modulations of EEG alpha oscillations. Poster presented at the Annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Payne, L., Dubé, C., & Sekuler, R. (2014). Alpha-band oscillations protect selective auditory and visual processing. Symposium presentation at the Annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Keller, A., Payne, L., Sekuler, R. (2014). Theta oscillations drive multisensory divided attention. Poster presented at Neurobiology of Cognition. Gordon Research Conference, Newry, ME.

Dube, C., Payne, L., Sekuler, R., & Rotello, C.M. (2013). Continuous recollection without unitization or familiarity. Poster presented at the Annual meeting of the Psychonomic Society, Toronto, CAN.

Symposium Organizer. *Functional Mechanisms of Attention*. 2013 Annual meeting of the Society for Neuroscience, San Diego, CA.

Payne, L., Dube, C., & Sekuler, R. (2013). Attention-modulated alpha-band oscillations protect against memory encoding of irrelevant visual and auditory stimuli. Symposium presentation at the Annual meeting of the Society for Neuroscience, San Diego, CA.

Guillory, S., Payne, L., & Sekuler, R. (2012). Alpha-band oscillations distinguish endogenous and exogenous attentional influences. Poster presented at the Annual meeting of the Cognitive Neuroscience Society, Chicago, IL.

Payne, L., Berteau, S., & Sekuler, R. (2011). Network analysis in EEG source-space of the dynamics that support intentional ignoring of visual stimuli. Poster presented at the Annual meeting of the Society for Neuroscience, Washington D.C.

Payne, L., Kounios, J. (2010). EEG alpha is reduced during short-term memory retention by the requirement to attend a visual display. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.

Payne, L., Kounios, J. (2008). Memory demand-induced increases in alpha-band power correspond to dynamic network changes. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Payne, L., Kounios, J. (2008). Coherent oscillatory networks supporting short-term memory retention. Poster presented at the Annual Meeting of the Society for Neuroscience, Washington D.C.

TEACHING EXPERIENCE

2018- **Assistant Professor**, Rutgers University, Camden NJ
Graduate Cognitive Psychology
Graduate Physiological Psychology
Graduate Readings in Psychology
Research Methods in Psychology
Physiological Psychology

2015-2018 **Instructor**, Swarthmore College, Swarthmore PA
Research Design and Analysis
Behavioral Neuroscience
Cognitive Neuroscience
Seminar in Cognitive Neuroscience
Research Practicum in Cognitive Neuroscience

Undergraduate Thesis Mentorship

2017-2018 Christina Labows

2016-2017 Maneepunnarai Jiwjinda, Allison Wong, James Chen

Independent Research

2017-2018 Maria Barros-Guinle

2016-2017 Richard Vu

Summer Research Fellows

2017 Morgan Purcell, Christina Labows, Maria Barros-Guinle

2016 Maneepunnarai Jiwjinda, Richard Vu

2013-2015 **Instructor**, Tufts University, Medford, MA
Clinical Research Methods

2014 **Instructor**, Brandeis University, Waltham, MA
EEG Workshop

- 2008- 2009 **Teaching Assistant**, Neuroscience Statistics
Drexel University College of Medicine, Philadelphia PA
- 2008- 2009 **Tutor**, Medical Neuroscience
Drexel University College of Medicine, Philadelphia PA
- 2007 **Adjunct Instructor**, Computer Assisted Data Analysis
Drexel University, Philadelphia PA
- 2006- 2008 **Student Lecturer**, Principles of Neuroscience: Behavioral Neuroscience
Drexel University College of Medicine, Philadelphia PA

DEPARTMENTAL/UNIVERSITY SERVICES

- 2019- Director, Graduate Program in Psychology
- 2018- 2019 Undergraduate Committee, Psychology Department
- 2016- 2018 Cognitive Science Program Committee
- 2011- 2014 Initiated and organized a monthly Cognitive Neuroscience Journal Club for the
Brandeis life sciences community
- 2006- 2009 Discovery Research Day Committee
- 2004- 2007 Graduate Student Association, student representative to the Alumni Board
- 2004 Neuroscience Steering Committee, student representative
- 2003- 2004 Neuroscience Curriculum Committee, student representative