

Brennan R Payne, PhD: CV Addendum

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Publications

Under review and in preparation

1. Silcox, J.*, Mickey, B., & **Payne, B.R.**. Transcranial magnetic stimulation of the speech network attenuates predictive processes during silent reading and memory. Under review.
2. Jongman, S., Copeland, A.*, Yaki, X.*, **Payne, B.R.**, & Federmeier, K.D. Aging and intraindividual variation in the use of predictive processing while reading. Under Revision.
3. Lai, M.*, **Payne, B.R.**, & Federmeier, K.D. Graded and ungraded expectations: Examining prediction dynamics during active comprehension. Under review.
4. LoTempio, S.*, Lopes, C.*, McDonnell, A.* Scott, E., **Payne, B.R.** & Strayer, D.L. Towards an understanding of the ERN's relationship to task-related behavior: A brief review and framework. Under review.
5. LoTempio, S*, McKinney, T.L.*, Scott, E.E.*, McDonnell, A.M.*, Castro, S.C., McNay, G.M.*, Greenberg, K.*, **Payne, B.R.** & Strayer, D.L. A natural boost to cognitive control: A registered report on nature exposure as a potential modulator of the anterior N2 and medial frontal theta. Under review.
6. LoTempio, S*., Silcox, J.W.*, Murdock, R.S*, **Payne, B.R.**, & Strayer, D.L. To err is human- to understand error-processing is divine: Examining the compensatory error-processing hypothesis. Under review.
7. **Payne, B.R.** & Federmeier, K.D. It takes (your) time: Aging, volitional control, and intra-individual variability in context processing. In preparation.
8. LoTempio, S.*, Silcox, J.* Federmeier, K.D., & **Payne, B.R.** Distinct pupillary and neural responses to semantic and syntactic violations in sentence processing. In preparation.
9. Lopes, C.L.*, Schotter, E.R., & **Payne, B.R.** On the verge of plausible: Parsing contributions of parafoveal and foveal plausibility effects during reading. In preparation.
10. **Payne, B.R.**, Hussey, E., & Christianson, K. Boundary salience and implicit segmentation in syntactic attachment ambiguity resolution: An eye movement study. In preparation.

Grants under review

1. NSF2140834-1. Hill & Payne (MPI). 07/01/23-07/01/25. "Memory Self-Concept in Daily Life: Developmental and Contextual Influences". National Science Foundation - Resubmission. \$511,477.

Grants in preparation

1. "Reading in the real world: Lifespan developmental changes in ecologically valid reading via fixation-related brain potentials." National Science Foundation. Role: Principal Investigator.

Grants submitted but not funded

1. NSF2140834. Hill & Payne (MPI). 07/01/22-07/01/24. “Memory Self-Concept in Daily Life: Developmental and Contextual Influences”. National Science Foundation. \$511,477. 2022.
2. “Examining the cognitive workload of intelligent voice-based interactions during driving”. SRI International. Role: Principal Investigator. Co-I: Dr. David Strayer.
NOTE: Grant was accepted for funding, but cancelled by SRI during contracting. \$86,537. 2021.
3. “The reading brain in the real world: Lifespan variation in naturalistic reading via co-registration of eye movements and EEG”. James S. McDonnell Foundation. Role: Principal Investigator. \$249,907. 2021.
4. “Neural mechanisms of language and memory processes in effortful listening among adults with sensorineural hearing loss”. National Institutes of Health NIDCD Early Career Research Award (R21). Role: Principal Investigator. (Co-I: Dr. Sarah Ferguson). \$457,500. 2020.
5. “Measuring distraction-related attention shifts and their consequences on complex listening”. Hearing Health Foundation. Role: Consultant. (PI: Dr. Samantha Gustafson). 2020.
6. “Personality predictors of intraindividual variability in daily cognitive life.” National Institutes of Health (NIA-R21). Role: Co-Investigator. (PI: Dr. Patrick Hill). 2020
7. “Neuromodulation of human language and memory functioning via theta burst stimulation”. NEXUS Pilot Grant. Role: Principal Investigator (Co-I: Dr. Brian Mickey). 2020.
8. “Personality and Healthy Cognitive Aging: Predicting Variability in Older Adults’ Daily Cognitive Functioning”. The Velux Stiftung Foundation (Healthy Ageing Research Grant). Role: Co-Investigator (PI: Dr. Patrick Hill). 2020.
9. “Cognitive and Neural Mechanisms Underlying the Relationship between Music and Language Processing”. NIH R21. Role: Principal Investigator (MPI with Dr. Liz Schotter. Co-I: Dr. Jennifer Bugos). 2019.
10. “Bringing Cognitive Neuroscience to the Clinic: Evaluating Novel EEG Markers of Early Alzheimer’s and Non-Alzheimer’s Dementia” Letter of Intent. Dana Foundation-David Mahoney Neuroimaging Grant Program. Role: Co-Investigator (PI: Dr. Matt Euler). 2019.
11. “Sense of Purpose and Cognitive Resilience: Integrative Data Analysis of Multiple Aging Studies”. NIH R03 Role: Principal Investigator (PI with Dr. Pat Hill). 2018
12. “Neurophysiological Mechanisms of Propofol’s Antidepressant Effects”. Utah Neuroscience Initiative Grant. Role: Co-Principal Investigator. (with Dr. Brian Mickey and Dr. Scott Tadler). 2018
13. “Neuro-cognitive mechanisms linking music and language: Working Memory and Prediction”. National Institutes of Health R21. Role: Principal Investigator (MPI with Dr. Liz Schotter. Co-I: Dr. Jennifer Bugos). 2018.