

RESEARCH ASSOCIATE

Johns Hopkins Bloomberg School of Public Health; Biostatistics

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Education

Post-Doc, Biostatistics	Baltimore, MD
JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH	2021–2022
Post-Doc, Cognitive Psychology	Amherst, MA
University of Massachusetts, Amherst	2020–2021
PhD, Cognitive Psychology	Amherst, MA
University of Massachusetts, Amherst	2019–2020
MS, Cognitive Psychology	Amherst, MA
University of Massachusetts, Amherst	2015–2019
BA, Biology	Portland, OR
REED COLLEGE	2010-2014

Publications

PEER-REVIEWED

Sadil, P., Cowell, R. A., & Huber, D. E. (2023). The push-pull of serial dependence effects: Attraction to the prior response and repulsion from the prior stimulus. *Psychonomic Bulletin & Review*. https://doi.org/10.3758/s13423-023-02320-3

Sadil, P., Cowell, R. A., & Huber, D. E. (2022). A modeling framework for determining modulation of neural-level tuning from non-invasive human fMRI data. *Communications Biology*, 5(1244), 1–12. https://doi.org/10.1038/s42003-022-04000-9

Cowell, R. A., Barense, M. D., & Sadil, P. (2019). A Roadmap for Understanding Memory: Decomposing Cognitive Processes into Operations and Representations. *eNeuro*, 6(4). https://doi.org/10.31234/osf.io/b7e8k

Sadil, P., Cowell, R. A., & Huber, D. E. (2019). A hierarchical Bayesian state trace analysis for assessing monotonicity while factoring out subject, item, and trial level dependencies. *Journal of Mathematical Psychology; IF: 2.176*, 90, 118–131. https://doi.org/10.1016/j.jmp.2019.01.003

Sadil, P., Potter, K. W., Huber, D. E., & Cowell, R. A. (2019). Connecting the dots without top-down knowledge: Evidence for rapidly-learned low-level associations that are independent of object identity. *Journal of Experimental Psychology: General; IF: 4.107, 148*(6), 1058–1070. https://doi.org/10.17605/osf.io/bqp32

Ross, D. A., Sadil, P., Wilson, M. D., & Cowell, R. A. (2017). Hippocampal Engagement during Recall Depends on Memory Content. *Cerebral Cortex; IF: 6.308, 28*(8), 2685–2698. https://doi.org/10.1093/cercor/bhx147

Sadil, P., & Cowell, R. A. (2017). A Computational Model of Perceptual and Mnemonic Deficits in Medial Temporal Lobe Amnesia. *Journal of Cognitive Neuroscience; IF: 3.468*, 29(6), 1075–1088. https://doi.org/10.1162/jocn_a_01106

Sadil, P., & Cowell, R. A. (2016). A Computational Model of Perceptual Deficits in Medial Temporal Lobe Amnesia. *Proceedings of the 38th Annual Meeting of the Cognitive Science Society.*

Grants and Awards

Oracle for Research

Johns Hopkins Bloomberg School of Public Health

\$50,000.00

· Study biases in automated diagnoses from medical imaging

Keith Rayner Memorial Graduate Student Research Award

University of Massachusetts,

Amherst

AIIIIEISE

\$1,500.00

University of Massachusetts,

Amherst

2018

Center for Research on Families Travel Grant

\$300.00

• Presented research at the 14th annual Context and Episodic Memory Symposium.

Edna M. Dahlquist Scholarship

University of Massachusetts,

Amherst

\$2,000.00

Biology Undergraduate Research Proposal

Reed College

\$1,500.00

· Characterized serotonin's role in generating rhythmic, vocal behavior in South African claw-toed frog with electrophysiology

Summer Undergraduate Research Fellowship

Reed College

2013

\$5,500.00

Set up immunohistochemistry protocols including tract tracing and Golgi Staining.

Presentations

Sadil, P., Farahani, Farzad V., Nath, T., & Lindquist, M. (2023). *Assessing generalizability of predictions of age from anatomical images with 3D CNN*. Poster presented at the 2023 Annual Meeting of the Organization for Human Brain Mapping.

Sadil, P., Cowell, R. A., & Huber, D. E. (2022). *Uncovering the neural and behavioral factors that underlie changes in processing visual orientation*. Invited talk given at Arizona State University seminar series.

Sadil, P., & Lindquist, M. (2022). *Reliability of effect sizes and spatial localization with population-level sample sizes*. Poster presented at the 2022 Annual Meeting of the Organization for Human Brain Mapping.

Sadil, P., Cowell, R. A., & Huber, D. E. (2020). The serial dependence effect is both attraction to the previous response and repulsion from the previous stimulus. Poster presented at the 61^{st} annual Psychonomics Society Meeting. Virtual

Sadil, P., Cowell, R. A., & Huber, D. E. (2019). A hierarchical bayesian state trace analysis for assessing monotonicity factoring out subject, item, and trial level dependencies. Poster presented at the 52^{nd} Annual Meeting of the Society for Mathematical Psychology Montreal, Quebec. CA.

Sadil, P., Huber, D. E., & Cowell, R. A. (2018). A hierarchical bayesian model for inferring neural subpopulation tuning functions from fMRI. Poster presented at the 1^{st} Annual UMass Interdisciplinary Neurosciences Conference. Amherst, MA.

Sadil, P., Huber, D. E., & Cowell, R. A. (2018). *A hierarchical bayesian model for inferring neural tuning functions from voxel tuning functions*. Talk given at the annual Vision Science Society Meeting. St. Pete Beach, Florida.

Sadil, P., Huber, D. E., & Cowell, R. A. (2018). Episodic-like retrieval mechanisms for non-episodic memories: Visual recollection in the absence of identification. Talk given at the 14^{th} annual Context and Episodic Memory Symposium. Philadelphia, PA.

Sadil, P., Huber, D. E., & Cowell, R. A. (2017). A novel method for fMRI analysis: Inferring neural mechanisms from voxel tuning. Poster presented at the 1^{st} annual Conference on Cognitive Computational Neuroscience. New York, NY.

Sadil, P., Potter, K., Huber, D. E., & Cowell, R. A. (2017). A continuous flash suppression study of implicit visual recollection. Talk given at the 13^{th} annual Context and Episodic Memory Symposium. Philadelphia, PA.

Sadil, P., Huber, D. E., & Cowell, R. A. (2016). Computational model of perceptual deficits in medial temporal lobe amnesia. Poster presented at the 12^{th} annual Context and Episodic Memory Symposium. Philadelphia, PA.

Sadil, P., Potter, K., Huber, D. E., & Cowell, R. A. (2016). A continuous flash suppression study of implicit visual recollection. Poster presented at the 57^{th} annual Psychonomics Society Meeting. Boston, MA.

Sadil, P., Huber, D. E., & Cowell, R. A. (2015). Visual recollection. Poster presented at the 11^{th} annual Context and Episodic Memory Symposium. Philadelphia, PA.

Peer Review

AD HOC BOOK REVIEW

• Springer

AD HOC REVIEW FOR JOURNALS

- Frontiers Aging Neuroscience
- Journal of Mathematical Psychology

Workshops Attended

2018 New England Statistics Symposium – Introduction to Bayesian Inference with Stan

University of Massachusetts, Amherst University of Michigan

2016 NIH funded training course in fMRI