Patrick **Sadil**

Postdoctoral Research Fellow

Johns Hopkins Bloomberg School of Public Health; Biostatistics

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Education

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

Preprints

Sadil, P., Cowell, R. A., & Huber, D. E. (2021). Every Response is both an Attraction to the Prior Response and a Repulsion from the Prior Stimulus. In *PsyArXiv*. https://doi.org/10.31234/osf.io/f52yz

Sadil, P., Huber, D. E., & Cowell, R. A. (2021). NeuroModulation Modeling (NMM): Inferring the form of neuromodulation from fMRI tuning functions. In *bioRxiv*. https://doi.org/10.1101/2021.03.04.433362

Peer-Reviewed

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 — *2021*
- Study biases in automated diagnoses from medical imaging

Keith Rayner Memorial Graduate Student Research Award — *University of Massachusetts, Amherst*
$1,500.00 — *2018*

Center for Research on Families Travel Grant — *University of Massachusetts, Amherst*
$300.00 — *2018*
- Presented research at the 14th annual Context and Episodic Memory Symposium.

Edna M. Dahlquist Scholarship *University of Massachusetts, Amherst*

$2,000.00 *2016*

Biology Undergraduate Research Proposal *Reed College*

$1,500.00 *2014*

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

Summer Undergraduate Research Fellowship *Reed College*

$5,500.00 *2013*

- Set up immunohistochemistry protocols including tract tracing and Golgi Staining.

Presentations

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., 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

- Journal of Mathematical Psychology

Workshops Attended

2018	New England Statistics Symposium – Introduction to Bayesian Inference with Stan	*University of Massachusetts, Amherst*
2016	NIH funded training course in fMRI	*University of Michigan*