

# Using Technology to Improve Daily Life

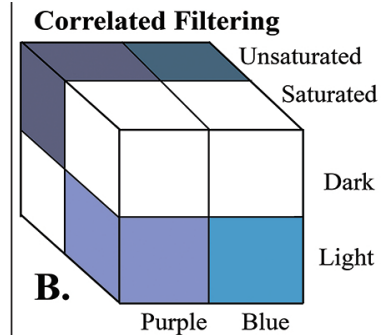
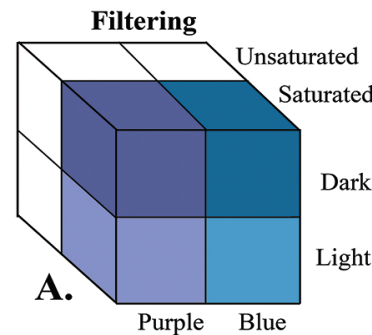
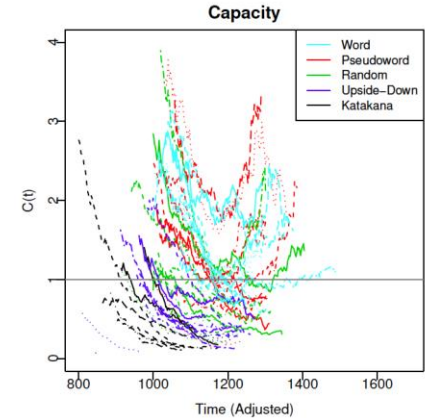
## Questions of Interest

**Augmented Perception:** The brain is a robust processing system capable of adapting to novel information streams. What new types of information can we give it, and what are the best methods for doing so?

**Understanding Attention:** Human information processing is often limited by attentional constraints. Why can they be so different depending on the stimulus/task? Are they fundamental, or surmountable?

**Maladaptive Behaviors:** We often know the best course of action, but still don't do it (exercise, procrastination, etc.). How technology help us keep ourselves honest?

**Cognitive Biases:** Our thought processes fail us in consistent and predictable ways. How can we avoid falling for the same traps again and again?



**PoC:** Devin Burns, Assistant Professor  
Psychological Science



## Background:

PhD in Cognitive Psychology and  
Cognitive Science from Indiana  
University, Bloomington

## Publications:

Burns, D. M. (2016). Garner Interference is Not Solely Driven by Stimulus Uncertainty. *Psychonomic Bulletin and Review*.

Burns, D. M., Houpt, J. W., & Townsend, J. T. (2013). Functional principal components analysis of workload capacity functions. *Behavioral Research Methods*, 45, 1048-1057.