

# Simon M. Kaplan, Ph.D.

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## KEY STRENGTHS

Research & Experimental Design,  
Online & Laboratory Studies

Scientific/Grant Writing, IRB  
Authorization, FDA Device  
Approval, Good Clinical Practice

Quantitative & Qualitative  
Data Analysis

Advanced Statistical Analysis  
& Data Visualization

Collaboration With Academics,  
Engineers, Clinicians,  
Researchers, & Technicians

Presentation Skills: Design,  
Organization, Public Speaking

## SKILLS

**Statistics:** T-Tests, ANOVA,  
Linear/ Logistic Regression and  
Modeling, Multidimensional Scaling  
(MDS), Bayesian Analysis

**Software & Languages:**  
JavaScript, HTML, CSS, Python, R,  
SPSS, SAS, MATLAB,  
Psychophysics Toolbox, Qualtrics,  
Amazon Mechanical Turk,  
Advanced MS Excel, Adobe  
Photoshop/Illustrator, Git, CED  
Signal, Tableau, Power BI

**Neurophysiology:** Functional  
MRI (fMRI), Eye-Tracking,  
Transcranial Magnetic  
Stimulation, Brainsight Neural  
Navigation

## EDUCATION

**Doctor of Philosophy (PhD):**  
**Cognitive Neuroscience**  
George Washington  
University, Washington, DC, 2023

**Master of Arts (MA): Psychology**  
George Washington University,  
Washington, DC, 2021

**Bachelor of Arts (BA):**  
**Psychology**  
University of Washington, Seattle,  
WA, 2013

**Scientist and Researcher** with 10+ years of specialized experience as a cognitive neuroscientist performing behavioral and physiological research with a focus on visual perception, working memory, and neuromodulation. Versatile skill set includes designing and implementing both online and laboratory studies, operating class III medical devices and optimizing tools for measurement/intervention, and start-to-finish experimentation involving: conceptualization, funding acquisition, project administration, methodology/software, data/statistical analysis, academic writing, visualization, and formal presentation.

## EXPERIENCE

**GEORGE WASHINGTON UNIVERSITY, Washington, DC**

**PhD Research Fellow, Department of Psychological and Brain Sciences, 08/2017 to 05/2023**

**Research Focus:** *Neural mechanisms and temporal dynamics of visual working memory*

- Led 5+ research projects focused on assessing the bidirectional interaction between working memory and perception using behavioral techniques and physiological intervention, resulting in 2 conference presentations, 3 posters, and multiple publications
- Planned, executed, and analyzed data for large sample online studies via self-managed server; collected reliable behavioral data from 10,000+ participants
- Designed, constructed, and successfully executed a vision for a lab that allows for online brain stimulation with fMRI guided neural navigation and a photodiode-based visual trigger
- Delivered weekly coding and analysis workshops to undergraduate research assistants

**SEATTLE NEUROPSYCHIATRIC TREATMENT CENTER, Seattle, WA**

**Lead TMS Clinician, 12/2016 to 06/2017; TMS Clinician, 05/2015 to 12/2016**

- Coordinated multiple end-to-end research trials investigating the use of Transcranial Magnetic Stimulation (TMS) for OCD, PTSD, and Parkinson's disease; engaged in recruitment, data collection/treatment, analysis/visualization, and final presentation
- Supervised a team of 12 staff members in regards to daily activities; involved in hiring decisions and designated trainer for new employees, managed equipment upkeep/maintenance and all necessary communication with manufacturer/distributor
- Cared for patients directly by administering daily TMS treatments, operated FDA approved medical devices while monitoring patient affect/mood, adapted and titrated as necessary
- Researched neuropsychiatric literature to aid providers in the construction of precise patient protocols as a function of unique symptomatology, further involved in treatment planning

**UNIVERSITY OF WASHINGTON, Seattle, WA**

**Research Assistant, Department of Neuroscience, 09/2012 to 05/2015**

**Research Focus:** *Human color vision: perception of the color brown*

- Designed and conducted surveys to assess subject qualification for experiment participation
- Engaged in lab day-to-day operations including: apparatus/material set-up, data collection and experiment implementation, curation/presentation of results to senior lab members
- Redesigned lab website, leading to 20% increase in graduate student applications

## SELECTED PUBLICATIONS

**Kaplan, S., Kravitz, D.J. (2023).** A neural oscillation in the interaction between visual working memory and perceptual processing. (*In prep*).

**Kaplan, S., Teng, C., Shomstein, S., Kravitz, D.J. (2023).** Assessing the Interaction Between Working Memory and Perception through time. *Attention, Perception, & Psychophysics*. (*Accepted – in review*).

**Nau, M., Schmidt, A., Kaplan, S., Kravitz, D.J., Baker, C. (2023).** Centering cognitive neuroscience on task demands. *Nature Neuroscience*. (*Accepted – in review*).