

# William Thyer

thyer@uchicago.edu | williamthyer.github.io

## Education

---

<i>Expected</i> 2023	<i>PhD Psychology, Integrative Neuroscience</i> University of Chicago, Institute for Mind and Biology
2020	<i>MA Psychology, Integrative Neuroscience</i> University of Chicago, Institute for Mind and Biology
2017	<i>BS Psychology, Minor in Statistics, cum laude</i> Florida State University

## Experience

---

Present	<i>Graduate Researcher, Awh &amp; Vogel Lab</i> University of Chicago
2021	<i>Data Science Intern</i> Spark Neuro
2017	<i>Research Assistant, Nee Lab</i> Florida State University
2015	<i>Research Assistant, Plant Lab</i> Florida State University

## Certifications & Awards

---

2019	<i>Fellow, Institute for Mind and Biology</i> University of Chicago
2017	<i>SAS Certified Base Programmer, Department of Statistics</i> Florida State University

## Peer-Reviewed Journal Articles

---

**Thyer, W., Adam, K.C.S., Diaz, G.K., Velázquez Sánchez, I.N., Vogel, E.K., Awh, E.** (2022). Storage in visual memory recruits a content-independent pointer system. *Under review.*

Foster, J.J., **Thyer, W.**, Wennberg, J.W., Awh, E. (2021). Covert attention increases the gain of stimulus-evoked population codes. *Journal of Neuroscience*

## Conference Talks

---

**Thyer, W.**, Vogel, E., Awh, E. (May 2020). Multivariate decoding of visual memory load provides evidence for item-based “pointers”. Poster session presentation at the *Virtual Working Memory Symposium*

## Conference Posters

---

**Thyer, W.**, Adam, K.S., Vogel, E., Awh, E. (October 2019). Multivariate Decoding of Visual Working Memory Load from the Human EEG Signal. Poster session presentation at the *Society for Neuroscience* conference, Chicago, IL

**Thyer, W.**, Adam, K.S., Vogel, E., Awh, E. (October 2019). Decoding Feature-Independent Working Memory Load from Human EEG. Poster session presentation at the *Mind Bytes* conference, Chicago, IL

**Thyer, W.**, Adam, K.S., Vogel, E., Awh, E. (November 2019). Decoding Feature-Independent Working Memory Load from Human EEG. Poster session presentation at the *Object Perception, Attention, and Memory* conference, Montreal, Quebec

## Service

---

Present	<i>Committee Head</i> , Academic and Career Development Committee Psychology Graduate Student Organization
2019	<i>Group Leader</i> , Machine Learning Group Knowledge, Information, Science, & Statistics Organization
2018	<i>Committee Member</i> , Academic and Career Development Committee Psychology Graduate Student Organization

## Skills

---

### *Expertise in:*

Programming and data analysis/visualization in Python, MATLAB  
Predictive modelling and multivariate pattern analysis in Scikit-Learn  
Collection and analysis of human electroencephalogram (EEG)

### *Proficiency in:*

Programming and data analysis/visualization in R, SAS  
Version control using GitHub