

**Katherine L. McNeely-White**  
**Curriculum Vitae**  
**April 2025**

**Department of Neurology**  
**University of California, Davis**  
**Sacramento, CA 95817**

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**Education**

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**Ph.D.** **2022**

Colorado State University – Fort Collins, CO

Cognitive Psychology

Doctoral Dissertation: Metacognitive States and Feelings of Curiosity: Information-Seeking Behaviors during Momentary Retrieval-Failure

Dissertation Advisor: Anne M. Cleary

**M.S.** **2020**

Colorado State University – Fort Collins, CO

Cognitive Psychology

Master's Thesis: The Subjective Sense of Familiarity with Music

Thesis Advisor: Anne M. Cleary

**B.S.** **2017**

Maryville College – Maryville, TN

Major: Neuroscience (Psychology Track)

Honors: Summa cum laude

Undergraduate Thesis: The Effects of White Noise on the Encoding and Retrieval Processes of Working Memory in People with ADHD

Thesis Advisors: Drs. Lori Schmied and Chad Schrock

**General Research Interests**

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Human memory

Recognition memory

Familiarity-detection

Retrieval failure

Features of memory traces

Curiosity

Metacognition, tip-of-the-tongue, déjà vu

## Academic Positions

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### Postdoctoral Scholar

August 2022 – Present

Epilepsy and Systems Neuroscience Lab

PI: Nigel Pedersen, MBBS, FAES

### Graduate Student Researcher

August 2017 – June 2022

Cleary Memory Lab, Colorado State University

PI: Anne Cleary, Ph.D.

### Study Coordinator

July 2016 – June 2017

Cole Neuroscience Center, University of Tennessee Medical Center

PIs: Randy Trudell, M.D., and Shelley Lott, N.P

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## Publications

### Peer-Reviewed Manuscripts

**McNeely-White, K. L.,** & Cleary, A. M. (in press). Illusory feelings of prediction during déjà entendu: An auditory analog to illusory feelings of prediction during déjà vu. *Memory & Cognition*.

Cleary, A. M., **McNeely-White, K. L.,** Neisser, J., Drane, D. L., Liégeois-Chauvel, C., & Pedersen, N. P. (2025). Does familiarity flip attention inward? A reconsideration of the mechanism behind the primacy effect in memory for repetitions. *Memory & Cognition*. doi:10.3758/s13421-024-01673-x

Okada, N. S., **McNeely-White, K. L.,** Cleary, A. M., Carlaw, B. N., Drane, D. L., Parsons, T. D., McMahan, T., Neisser, J., & Pedersen, N. P. (2024). A virtual reality paradigm with dynamic scene stimuli for use in memory research. *Behavior Research Methods*, 56, 6440-6463. doi:10.3758/s13428-023-02243-w.

**McNeely-White, K. L.,** & Cleary, A. M. (2023). Piquing curiosity: Déjà vu-like states are associated with feelings of curiosity and information-seeking behaviors. *Journal of Intelligence (Special Issue on The Intersection of Metacognition and Intelligence)*, 11(6), 112. doi:10.3390/jintelligence11060112

Huebert, A. M., **McNeely-White, K. L.,** & Cleary, A. M. (2023) On the relationship between tip-of-the-tongue states and partial recollective experience: Illusory partial recollective access during tip-of-the-tongue states. *Journal of Experimental Psychology: General*, 152, 524-70. doi:10.1037/xge0001292.

- Carlaw, B. N., Huebert, A. M., **McNeely-White, K. L.**, Rhodes., M. G., & Cleary, A. M. (2022). Detecting the familiar person behind the surgical mask: Recognition without identification among masked faces. *Cognitive Research: Principles and Implications*, 7(1), 1-11. doi:10.1186/s41235-022-00440-3.
- Huebert, A. M., **McNeely-White, K. L.**, & Cleary, A. M. (2022). Can cue familiarity during recall failure prompt illusory recollective experience? *Memory & Cognition*, 50, 681-695. doi:10.3758/s13421-021-01248-0.
- McNeely-White, K. L.**, McNeely-White, D. G., Huebert, A. M., Carlaw, B. N., & Cleary, A. M. (2022). Specifying a relationship between semantic and episodic memory in the computation of a feature-based familiarity signal using MINERVA 2. *Memory & Cognition*, 50, 527-545. doi:10.3758/s13421-021-01234-6.
- Cleary, A. M., **McNeely-White, K. L.**, Hausman, H., Dawson, J., Kuhn, S., Osborn, R. M., Huebert, A. M., & Rhodes, M. G. (2021). Wearable technology for automatizing science-based study strategies: Reinforcing learning through intermittent smartwatch prompting. *Journal of Applied Research on Memory and Cognition*, 10, 444-457. doi:10.1016/j.jarmac.2021.01.001
- McNeely-White, K. L.**, McNeely-White, D. G., & Cleary, A. M. (2021). Global matching in music familiarity: How musical features combine across memory traces to increase familiarity with the whole in which they are embedded. *Journal of Memory and Language*, 118, 104217. doi:10.1016/j.jml.2020.104217
- Cleary, A. M., **McNeely-White, K. L.**, Russell, S., Huebert, A. M., & Hausman, H. (2021). The tip-of-the-tongue state as a form of access to information: Use of tip-of-the-tongue states for strategic adaptive test-taking. *Journal of Applied Research on Memory and Cognition*, 10(1), 131-142. doi:10.1016/j.jarmac.2020.08.013
- Cleary, A. M., **McNeely-White, K. L.**, Huebert, A. M., & Claxton, A. B. (2021). Déjà vu and the feeling of prediction during retrieval failure: an association with familiarity strength. *Memory*, 29, 904-920. doi:10.1080/09658211.2018.1503686
- Cleary, A. M., Huebert, A. M., & **McNeely-White, K. L.** (2020) The tip of the tongue bias permeates into unrelated concurrent decisions and behavior. *Memory & Cognition*, 48, 596-606. doi:10.3758/s13421-019-00993-7

Cleary, A. M., Huebert, A. M., **McNeely-White, K. L.**, & Spahr, K. S. (2019). A postdictive bias associated with déjà vu. *Psychonomic Bulletin & Review*, 26, 1433-1439. doi:10.3758/s13423-019-01578-w

**McNeely-White, K. L.**, & Cleary, A. M. (2019). Music recognition without identification and its relation to déjà entendu: a study using “Piano Puzzlers.” *New Ideas in Psychology*, 55, 50 – 57. doi:10.1016/j.newideapsych.2019.04.002

### PrePrints

**McNeely-White, K. L.**, Liégeois-Chauvel, C., Yonelinas, A. P., & Pedersen, N. P. Enhancing feelings-of-familiarity for dynamic scenes by manipulating relevance-of-processing. PsyArXiv 3pbn7 [Preprint]. September 3, 2024 [cited September 13, 2024]. Available from: <https://doi.org/10.31234/osf.io/3pbn7>

### Book Chapters

Cleary, A. M., Huebert, A. M., & **McNeely-White, K. L.** (2020). **The Déjà vu Phenomenon’s Entry into the Realm of Science.** In Cleary, A. M. & Schwartz, B. L. (Eds.) *Memory Quirks: The Study of Odd Phenomena in Memory*. Routledge.

Cleary, A.M., **McNeely-White, K. L.**, Huebert, A. M., & Claxton, A.B. (2019). Déjà vu and the feeling of prediction: an association with familiarity strength. In A. R. O’Connor & C. J. A. Moulin (Eds) *Déjà Vu and Other Dissociative States in Memory*. Routledge.

### Under Review

Huebert, A. M., Carlaw, B. N., **McNeely-White, K. L.**, & Cleary, A. M. (invited revision) I want to know why this feels so familiar: Familiarity-detection during recall failure prompts curiosity and information-seeking. *Cognition*.

### In Preparation

**McNeely-White, K. L.**, Francisco-Andres, J., Carlaw, B. N, Gibson, J., Cleary, A. M., Napoli, E., Neisser, J., Liegeois-Chauvel, C., & Pedersen, N. P. (in preparation). Spatial recognition memory and metacognitive quirks across the lifespan: On the preservation of cognition in high-functioning adults.

Cleary, A. M., Okada, N., Bearden, D., Alphonso, D., Mills, C., Neisser, J., **McNeely-White, K. L.**, Pedersen, N. P., & Drane, D. L. (in preparation). A case of Highly Superior Autobiographical Memory (HSAM) accompanied by highly frequent involuntary autobiographical memory.

**McNeely-White, K. L.,** Huebert, A. M., & Cleary, A. M. (in preparation). Illusory feelings of prediction during tip-of-the-tongue states.

**McNeely-White, K. L.,** Carlaw, B. N., & Cleary, A. M. (in preparation). The long-term effects of déjà vu: Examining delayed memory performance as a function of familiarity, déjà vu, and feelings-of-prediction.

**McNeely-White, K. L.,** Huebert, A. M., & Cleary, A. M. (in preparation). The cumulative contributions of multi-modality feature-types for familiarity-based recognition.

**McNeely-White, K. L.** & Cleary, A. M. (in preparation). Novelty and familiarity juxtapositions in the déjà vu experience.

## Grants

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- 2025** National Institutes of Health  
 TL1 Clinical Research Training Program (CTSC-TL1)  
 Title: *Overcoming the Testing Gap in Epilepsy: Translating Cognitive Psychology to the Clinic*  
 Role: **Principal Investigator**  
 Status: Under Review
- 2024** National Institutes of Health  
 R01 Research Grant  
 Title: *Investigations of Spatial Recognition Memory to Improve Cognitive Outcomes in Epilepsy Surgery*  
 Role: **Postdoctoral Scholar**  
 Status: Under review
- 2024** University of California  
 President's Postdoctoral Fellowship Program  
 Title: *Destigmatizing the Mind. Understanding Lived Experiences in Disorders of the Brain.*  
 Role: **Principal Investigator**  
 Status: Unfunded
- 2023** National Institutes of Health  
 R01 Research Grant  
 Title: *Neural Circuits Underlying Familiarity Judgments in Human Recognition Memory*  
 Role: **Postdoctoral Scholar**  
 Status: Unfunded
- 2019** Colorado State University, Molecular, Cellular, and Integrative Neurosciences PRSE  
 Pilot Research Grant  
 Role: **Graduate Student Researcher** (Co-PI's Anne Cleary, Carol Seger)

Title: *Exploring the Role of the Medial Temporal Lobe (MTL) in Déjà Vu*

Status: Funded (\$7,500)

## Honors and Awards

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- 2022** CGS/ProQuest Distinguished Dissertation Award Department Nominee  
**2021** Marc V. Richard Excellence in Teaching Award  
**2021** David P. McCabe Excellence in Research Award  
**2021** APA Division 3 Student Poster Award (\$200)  
**2021** College of Natural Sciences Graduate Student Teaching and Mentoring Award (\$1,500)  
**2019** David P. McCabe Excellence in Research Award  
**2019** Psychonomic Society Graduate Travel Award (\$1,000)  
**2017** Maryville College Neuroscience Award (\$200)  
**2013 – 2017** Maryville College Scholarship (\$76,000)  
**2013 – 2017** Maryville College Recognition Award (\$4,000)  
**2013 – 2017** Maryville College Dean's List

## Teaching & Mentoring Experience

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### Teaching Interests

*Cognitive Psychology, Science of Learning, Introductory Psychology, Cognitive Neuroscience, Human Learning & Memory, Research Methods, Introductory Statistics, Inferential Statistics*

**Instructor**, Department of Psychology, CSU

**Summer 2020-2022**

### **Cognitive Psychology.**

Instructor for small-sized undergraduate lecture courses (approx. 30 students) in cognitive psychology held in an online format. The course focused on methods and theories of cognitive psychology as well as applications to real-world scenarios.

**Fall 2020-Spring 2021**

### **Applying Effective Strategies to Human Physiology.**

Instructor for small-sized undergraduate recitation courses (approx. 20 students) in science of learning held in an online format. The course focused on effective learning techniques and ways in which students could implement them in an anatomy and physiology course.

**Fall 2019, Fall 2021**

### **Cognitive Neuroscience Laboratory.**

Instructor for small-sized undergraduate laboratory courses (approx. 20 students) in cognitive neuroscience held in an in-person format. The course focused on methods used in cognitive

neuroscience, such as EEG, ERP, fNIRS, and fMRI, and their applications to research.

**Fall 2018-Spring 2019**

**Applied Cognitive Psychology Laboratory.**

Instructor for small-sized undergraduate laboratory courses (approx. 20 students) in cognitive psychology held in an in-person format. The course focused on behavioral methods used in cognitive psychology and their applications to research.

**Guest Lecturer, Department of Psychology, CSU**

**Spring 2020**

**Science of Learning** (Instructor: Anne Cleary)

*Implementing Spacing*

*Implementing Elaboration*

**Fall 2019**

**Cognitive Neuroscience Lab** (Instructor: Katherine Becker)

*Neuropsychology & Measurements*

**Spring 2018**

**Cognitive Neuroscience** (Instructor: Carol Seger)

*Clinical Research in Neuropsychology*

**Fall 2017**

**Cognitive Neuroscience** (Instructor: Garrett Cardon)

*Visual Pathways and Information Processing*

*Visual Illusions*

**Guest Lecturer, Department of Psychology, UC Davis**

**Spring 2023**

**Human Learning and Memory** (Instructor: Charan Ranganath)

*Episodic Long-Term Memory Retrieval: Recognition & Recall*

**Course Development, Department of Psychology, CSU**

**Summer 2020**

**Cognitive Psychology.**

- Developed recorded lectures on topics relating to cognitive psychology.
- Created exams, quizzes, discussion board topics, and written assignments.

**Fall 2019**

**Cognitive Neuroscience Laboratory.**

- Created standardized handouts for ERP, fMRI, and fNIRS laboratory activities.
- Conducted EEG BIOPAC cap maintenance.
- Developed multichannel EEG experiment.
- Developed neuropsychological testing activities.

## Professional Teaching Development

<b>Summer 2020</b>	<i>Teaching Online</i> (TILT course on best practices for online teaching)
<b>Fall 2020</b>	<i>Evidence-based Approaches to College Teaching</i> (graduate-level seminar on effective college teaching practices)
<b>Spring 2021</b>	<i>Neuroscience of Education</i> (graduate-level seminar on neuroscience-based methods for learning and education); <i>Best Practices in Teaching at CSU: Inclusive Pedagogy</i> (TILT course on best practices in teaching and inclusivity)

## Undergraduate Research Mentorship

*Mentoring Undergrads to Graduate School Success (MUGSS) mentor*, 2019 - 2022  
*Undergraduate Psychology Honors Thesis committee member*, Spring 2018, Fall 2019  
*Bridges to Baccalaureate (B2B) graduate student mentor*, Summer 2018, Summer 2019  
*NSF Research Experiences for Undergraduates*, Summer 2018, Summer 2019

## Conference Presentations

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(\*denotes undergraduate mentee at the time of work)

### Talks & Poster Presentations

**McNeely-White, K. L.**, Francisco-Andres, J., Carlaw, B. N., Gibson, J., Cleary, A. M., & Pedersen, N. P. (November 2024). Déjà vu experiences throughout the lifespan: On the relationship between age, spontaneous and experimentally-induced déjà vu, and other metacognitive quirks. Poster presented at the 65<sup>th</sup> Annual Meeting of the Psychonomic Society. New York City, NY.

**McNeely-White, K. L.**, \*Okada, N.S., Cleary, A. M., Carlaw, B. N., Drane, D. L., Parsons, T. D., McMahan, T., Neisser, T., & Pedersen, N. P. (May 2023). A virtual reality paradigm for investigating spatial cognition and memory retrieval processes. Poster presented at the 2<sup>nd</sup> Annual Research Symposium for Neuroengineering & Medicine at UC Davis, CA.

\*Okada, N. S., **McNeely-White, K. L.**, Cleary, A. M., Drane, D. L., Parsons, T.D., McMahan, F., Neisser, J., Pedersen, N. P. (November 2022). A virtual reality paradigm with scene stimuli for use in memory research. Paper presented at the 52<sup>nd</sup> Annual Meeting of the Society for Computation in Psychology (SCiP), Boston, MA.

Huebert, A. M., **McNeely-White, K. L.**, & Cleary, A. M. (November 2022). I want to know why this feels familiar: Can cue familiarity prompt curiosity and information seeking? Poster presented at Psychonomic Society 63<sup>rd</sup> Annual Meeting, Boston, MA.

**McNeely-White, K. L.**, & Cleary, A. M. (November 2022). The association between déjà vu-like states and curiosity. Poster presented at Psychonomic Society 63<sup>rd</sup> Annual Meeting, Boston, MA.



Carlaw, B. N., Huebert, A. M., **McNeely-White, K. L.**, Rhodes, M. G., & Cleary, A. M. (November 2022). Detecting a familiar person behind the surgical mask: Recognition without identification among masked vs. sunglasses-covered faces. Poster presented at Psychonomic Society 63<sup>rd</sup> Annual Meeting, Boston, MA.

\*Okada, N.S., **McNeely-White, K. L.**, McMahan, T., Parsons, T., Neisser, J., Drane, D. L., Pedersen, N. P., & Cleary, A. M. (November 2022). Modern immersive virtual reality paradigm to investigate feelings of familiarity and déjà vu. Poster presented at the Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA.

**McNeely-White, K. L.**, Huebert, A. M., & Cleary, A. M. (August 2021). Does the tip-of-the-tongue state entail a feeling of being on the tip of prediction? Poster presented at APA Convention, virtual.

**McNeely-White, K. L.**, Huebert, A. M., & Cleary, A. M. (November 2020). How features interact across memory traces to produce familiarity-based recognition. Poster presented at Psychonomics, virtual.

**McNeely-White, K. L.**, & Cleary, A. M. (November 2019). Haven't I heard this before? The mechanism and bias of déjà entendu. Poster presented at Psychonomics, Montreal, QC.

Cleary, A. M., Huebert, A. M., & **McNeely-White, K. L.** (November 2019). The déjà vu phenomenon: A window into the role of familiarity in cognitive bias. Talk presented at Psychonomics, Montreal, QC.

\*Gomez, L. Y., Huebert, A. M., **McNeely-White, K. L.**, & Cleary, A. M. (August 2019). Emotional dynamics of the tip-of-the-tongue experience. Poster presented at Research Experience for Undergraduates Program, Fort Collins, CO.

\*Kerr, J. E., \*Hughes, E., **McNeely-White, K. L.**, & Cleary, A. M. (April 2019). Embedding familiarized musical features into novel song sequences. Poster presented at Rocky Mountain Psychological Association, Denver, CO.

\*Russell, S., \*Dawson, J., \*Kerr, J. E., **McNeely-White, K. L.**, Huebert, A. M., & Cleary, A. M. (April 2019). The use of smartwatches to encourage effective study habits. Poster presented at Rocky Mountain Psychological Association, Denver, CO.

Huebert, A. M., **McNeely-White, K. L.**, & Cleary, A. M. (March 2019). Does familiarity drive feelings of prediction during déjà vu? Invited talk at Southern Society for Philosophy and Psychology, Cincinnati, OH.

Huebert, A. M., **McNeely-White, K. L.**, & Cleary, A. M. (November 2018). Familiarity increases recollection confidence but not recollection accuracy. Poster presented at Psychonomics, New Orleans, LA.

**McNeely-White, K. L.**, Cleary, A. M., & Claxton, A. B. (November 2018). Embedding familiarized rhythm or pitch sequences in musical pieces increases subjective song familiarity. Poster presented at Psychonomics, New Orleans, LA.

Cleary, A. M., Huebert, A. M., & **McNeely-White, K. L.** (November 2018). A hindsight bias associated with the illusory sense of prediction during déjà vu. Talk presented at Psychonomics, New Orleans, LA.

Lott, S., Anthony, R., Dreyer, J., **McNeely-White, K. L.**, Russell, E., & Trudell, R. (November 2018). Cognition and multiple sclerosis. Poster presented at University of Tennessee Research Day, Knoxville, TN.

\*Dawson, J. **McNeely-White, K. L.**, & Cleary, A. M. (August 2018). Improving learning with wearable technology. Poster presented at Research Experience for Undergraduates Program, Fort Collins, CO.

\*Dawson, J. **McNeely-White, K. L.**, & Cleary, A. M. (August 2018). Improving learning with wearable technology. Research talk presented at Research Experience for Undergraduates Program, Fort Collins, CO.

**McNeely-White, K. L.**, Huebert, A. M., & Cleary, A. M. (April 2018). Irrational feelings of prediction during tip-of-the-tongue states. Research talk presented at Rocky Mountain Psychological Association, Denver, CO.

\*Shock, S., \*Parsons, R., \*Xu, Y., Huebert, A., **McNeely-White, K. L.**, & Cleary, A. M. (April 2018). A false sense of predicting a coin flip. Poster presented at Rocky Mountain Psychological Association, Denver, CO.

\*Kerr, J. E., \*Morley, G., \*Wu, Y. **McNeely-White, K. L.**, Huebert, A., & Cleary, A. M. (April 2018). Tip-of-the-tongue states confer a feeling of knowing the direction of an arrow. Poster presented at Rocky Mountain Psychological Association, Denver, CO.

Huebert, A. M., **McNeely-White, K. L.**, & Cleary, A. M. (April 2018). Cue familiarity increase illusory source memory confidence. Poster presented at Rocky Mountain Psychological Association, Denver, CO.

### **Invited Talks**

**McNeely-White, K. L.** (March 2023). Déjà vu and feelings of curiosity. Invited talk at University of California, Davis, CA.

**McNeely-White, K. L.**, & Pedersen, N. P. (October 2022). Haven't I been here before? Study of familiarity and déjà vu. Invited talk at University of California, Davis, CA.

**McNeely-White, K. L.** (March 2022). Déjà entendu: The auditory déjà vu experience and its associated biases. Invited talk at Southern Society for Philosophy and Psychology, Mobile, AL.

**McNeely-White, K. L.**, & Huebert, A. M. (December 2020). The mechanisms of visual and auditory déjà vu experiences. Invited talk at Florida International University, Miami, FL.

Cleary, A. M., **McNeely-White, K. L.**, & Huebert, A. M. (December 2020). The role of the subjective sensation of familiarity in feelings of prediction. Invited joint talk at Southern Society for Philosophy and Psychology, virtual.

**McNeely-White, K. L.**, & Cleary, A. M. (March 2019). Déjà entendu: That strange feeling of knowing a song. Invited talk at Southern Society for Philosophy and Psychology, Cincinnati, OH.

### **Editorial Activities**

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#### **Reviewer Board**

Journal of Intelligence

#### **Ad Hoc Reviewing**

Journal of Applied Research on Memory and Cognition

Journal of Experimental Psychology: General

Journal of General Psychology

Journal of Intelligence

Journal of Memory and Language

Journal of Undergraduate Research

Memory

Memory & Cognition

Music Perception

New Ideas in Psychology  
Neuropsychologia  
PLOS One  
Psychiatry Research Case Reports  
Routledge Publishing  
Royal Society Open Science

### **Professional Affiliations**

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Member, Alpha Gamma Sigma Honor Society, Member  
Member, Association for Psychological Science  
Member, Cognitive Neuroscience Society  
Member, Psi Chi International Honor Society in Psychology  
Member, Psychonomics Society  
Member, Southern Society for Philosophy and Psychology (SSPP)

### **Departmental/College/University Service**

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**2024-present:** Clinical imaging reconstruction and electrode localization  
**2019:** Cognitive Psychology Graduate Student Admissions Committee

### **Technical Skills**

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Computer Programs: R Studio, SPSS, Prism, JASP, E-Prime, PsychoPy, Qualtrics, BrainStorm, ERPLab  
Programming Languages: Python, E-Basic, HTML/JS (Qualtrics)  
Neuropsychology Assessment Tools: Cognitive Rating for Montreal Cognitive Assessment (MoCA), Brief Repeatable Battery of Neuropsychological Assessments (BRB), Beck Depression Inventory (BDI), Mini-Mental State Examination (MMSE)