

Joshua M. Olivier

Personal Information

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Education

2021 **B.S., Psychology**
Brigham Young University, Provo, UT
Relevant coursework:

- Abnormal Psychology
- Behavioral Neurobiology
- Clinical Psychology
- Stress Psychobiology
- Cognition
- Psychometrics
- Writing Within Psychology
- Psychological Statistics

Scholarly Publications

Olivier, J. M., Srokova, S., Hill, P. F., & Rugg, M. D. (2025). Moderating effects of cortical thickness, volume, and memory performance on age differences in neural reinstatement of scene information (p. 2025.02.06.636759). *bioRxiv*. <https://doi.org/10.1101/2025.02.06.636759> (Manuscript under review)

de Chastelaine, M., Srokova, S., Monier, S., **Olivier, J. M.**, & Rugg, M. D. (2025). Effects of age in the strategic control of recollected content as reflected by modulation of scene reinstatement (p. 2025.01.16.633416). *bioRxiv*. <https://doi.org/10.1101/2025.01.16.633416> (Manuscript under review)

Kamhout, S.[†], **Olivier, J. M.**[†], Morris, J., Brimhall, H. R., Black, B. L., Gabrielsen, T. P., South, M., Lundwall, R. A.[‡], & Nielsen, J. A.[‡] (2023). Binocular rivalry in autistic and socially anxious adults. *Frontiers in Psychiatry*, 14. <https://doi.org/10.3389/fpsyt.2023.1181797>

[†]These authors have contributed equally to this work and share first authorship

[‡]These authors jointly supervised this work and share senior authorship

Poster Presentations

Olivier, J. M.*, Srokova, S., & Rugg, M. D. (2025, March 29–April 1, accepted for presentation). *Moderating effects of cortical thickness, volume, and memory performance on age differences in neural reinstatement of scene-related information*. Cognitive Neuroscience Society, Boston, MA, United States.

Olivier, J. M.*, Srokova, S., & Rugg, M. D. (2025, February 20–22). *Moderating effects of cortical thickness, volume, and memory performance on age differences in neural reinstatement of scene-related information*. Dallas Aging and Cognition Conference, Dallas, TX, United States.

- de Chastelaine, M.*, Monier, S., **Olivier, J. M.**, Srokova, S., & Rugg, M. D. (2024, October 5–9). *Goal-dependent attenuation of retrieval-related scene reinstatement in young and older adults*. Society for Neuroscience, Chicago, IL, United States.
- Olivier, J. M.***, Srokova, S., & Rugg, M. D. (2023, November 11–15). *Moderating effects of cortical volume and thickness on retrieval-related scene reinstatement*. Society for Neuroscience, Washington, D.C., United States.
- Olivier, J. M.***, Srokova, S., & Rugg, M. D. (2022, February 25–27). *Age and retrieval-related scene reinstatement: moderating effects of cortical thickness*. Dallas Aging and Cognition Conference, Dallas, TX, United States.
- Olivier, J. M.***, Srokova, S., & Rugg, M. D. (2022, November 12–16). *Age and retrieval-related scene reinstatement: moderating effects of cortical thickness*. Society for Neuroscience, San Diego, CA, United States.
- Olivier, J. M.***, Morris, J., Kamhout, S., Black, B., Wood, H., Brimhall, H., & Nielsen, J. A. (2021, April 8). *Autistic traits do not predict binocular rivalry switching rate*. Mary Lou Fulton Conference, Provo, UT, United States.
- Morris, J.*, **Olivier, J. M.**, Kamhout, S., Brimhall, H., Wood, H., & Nielsen, J. A. (2021, April 8). *Anxious traits in college students do not correlate with visual perception*. Mary Lou Fulton Conference, Provo, UT, United States.
- Brimhall, H.*, **Olivier J. M.**, Kamhout. S., Morris, J., Black, B., Wood, H., Nielsen, J. A. (2021, April 8). *Autistic and socially anxious conditions: Changes to visual perception*. Mary Lou Fulton Conference, Provo, UT, United States.

*Presenter

Research Experience

Functional Neuroimaging of Memory Lab

April 2024 – Present

University of Texas at Dallas

Mentor: Dr. Michael Rugg, PhD

Title: Lab Manager/Research Assistant II

- Supervised daily lab operations
- Coordinated research subject recruitment and scheduling
- Managed research data storage, organization, and compliance with security and privacy protocols
- Trained and coordinated with all lab personnel, including postdoc researchers, graduate students, research assistants, and master's and undergraduate level interns
- Ensured adherence to institutional and federal regulations for human subjects research, including IRB protocol management
- Created and coordinated subject recruitment advertisements on social media platforms and in local news publications
- Acted as liaison between the lab and external departments, collaborators, and organizations
- Managed inventory of lab supplies
- Coordinated lab member travel to international, national, and regional conferences
- Maintained all responsibilities outlined in the Research Assistant role below

Functional Neuroimaging of Memory Lab**June 2021 – April 2024**

University of Texas at Dallas

Mentor: Dr. Michael Rugg, PhD

Title: Research Assistant I

- Administered neuropsychological tests
- Collected fMRI and behavioral data
- Presented conference posters
- Processed and analyzed MRI data using MATLAB, SPM12, and FreeSurfer
- Analyzed statistical data using SPSS and R
- Represented the lab at community outreach events

Nielsen Brain & Behavior Lab**August 2018 – April 2021**

Brigham Young University

Mentor: Dr. Jared Nielsen, PhD

Title: Research Assistant

- Contributed to a peer-reviewed manuscript as a co-first author
- Obtained funding through three undergraduate research grants
- Contributed to an IRB application
- Administered tasks to adult research subjects
- Administered questionnaires using Qualtrics
- Analyzed data using R
- Presented a conference poster
- Quality-checked MRI data using FreeSurfer

Ladle Lab**May 2018 – July 2018**

Johns Hopkins University School of Medicine

Mentor: Dr. Brian Ladle, MD, PhD

Title: Research Assistant/Oncology Staff

- Conducted cancer treatment research analyzing the effectiveness of histone deacetylase inhibitors on osteosarcoma cells from mice
- Utilized molecular techniques such as DNA and RNA isolation, cDNA, PCR, and qPCR
- Isolated immune tissue from mice tumor samples
- Maintained laboratory records
- Processed and analyzed data

Grants & Awards

2020,
Spring/Summer
Terms**BYU Psychology Experiential Learning Grant**

Project: Binocular Rivalry Switch Rate Across a Range of Autistic and Anxious Traits

Status: Funded, \$1,500

2020,
Winter Semester**BYU Psychology Experiential Learning Grant**

Project: Binocular Rivalry Switch Rate Across a Range of Autistic and Anxious Traits

Status: Funded, \$1,500

2019,
Fall Semester

BYU Psychology Experiential Learning Grant

Project: Binocular Rivalry Switch Rate Across a Range of Autistic and Anxious Traits

Status: Funded, \$1,500

2017–2019

Academic Half-Tuition Scholarship

Brigham Young University

Research Interests

- Clinical neuropsychology
- Neuropsychological assessment and test development
- Neuroimaging methods
- Cognitive aging
- Episodic memory
- Neurocognitive disorders

Service & Activities

2021–2024

Volunteer Crisis Counselor

Crisis Text Line

2023

Out of the Darkness Community Walk Volunteer

American Foundation for Suicide Prevention, Arlington, TX

2023

Functional Neuroimaging of Memory Lab Community Outreach Presenter

Hope for the Caregiver Conference, Prestonwood Baptist Church, Plano, TX

2019–2021

Part Time Student Secretary

Brigham Young University Neuroscience Center

2020

Undergraduate Journal Editor

Chiasm: BYU Undergraduate Journal of Neuroscience, Volume 12, Provo, UT

2017

English as a Second Language Tutor

BYU International Network of Tutors of Languages, Provo, UT

Academic Affiliations

2024–2025

Cognitive Neuroscience Society

2022–2024	Society for Neuroscience
2020	Society for Neuroscience – Intermountain SfN Chapter Student Member
2020	Delta Alpha Pi Honor Society

Technical Skills

Software

- R Studio
- SPSS
- MATLAB
- SPM12
- FreeSurfer
- PsychoPy
- Microsoft Excel
- REDcap
- Qualtrics
- Zotero

Programming languages

- Bash
- R
- MATLAB
- Python
- Javascript

Web development

- HTML
- CSS
- React
- Astro

Neuropsychological tests administered

- MMSE
- CVLT II
- SDMT
- Digit Span
- Trail Making Test
- Letter Fluency
- Category Fluency
- TOPF
- WMS Logical Memory
- Raven's APM
- BVMT-R
- HVLT-R

Languages

- English Native speaker
- Portuguese Advanced (Awarded BYU Center for Language Studies Portuguese Language Certificate, Advanced Level)
- Spanish Beginner