

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. (preprint under review). 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>

de Chastelaine, M., Srokova, S., Monier, S., **Olivier, J. M.**, & Rugg, M. D. (in press). Effects of age on the strategic control of recollected content as reflected by modulation of neural correlates of scene retrieval. *Neurobiology of Aging*. <https://doi.org/10.1016/j.neurobiolaging.2025.06.005>

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/fpsy.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). *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–Present Cognitive Neuroscience Society

2022–Present Society for Neuroscience

2020–2021 Society for Neuroscience – Intermountain SfN Chapter Student Member

2020–2021 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