

# Linda Jasmine HOFFMAN

## PERSONAL DATA

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## EDUCATION

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AUG 2023 - PRESENT Graduate research fellow at **Temple University**, Philadelphia, PA  
*Degree Program: Ph.D. in Psychology, Cognition & Neuroscience Track*  
*Expected Graduation Date: Fall 2026*

AUG 2014 - MAY 2017 Bachelor of Arts in PSYCHOLOGY, **Temple University**, Philadelphia, PA  
*Summa cum laude, Distinction in major* | Major: Psychology  
Honors Thesis: "The Role of Awake Targeted Memory Reactivation in Facilitating Foreign Language Learning" | Advisor: Dr. INGRID R. OLSON  
GPA: 3.96

AUG 2013 - MAY 2014 Undergraduate Studies, **Saint Joseph's University**, Philadelphia, PA  
*Dean's list, spring and fall semesters* | Major: Psychology

## RESEARCH EXPERIENCE

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AUG 2023 PRESENT	Graduate Research Consultant Vascular Contributions to Mechanisms and Biomarkers of Alzheimer's <i>Temple University, Philadelphia, PA   Crozer Hospital, West Chester, PA</i>
AUG 2023 MAY 2022	Associate Scientist III Dr. Ingrid Olson's Cognitive Neuroscience Laboratory <i>Temple University, Philadelphia, PA</i>
MAY 2022 MAY 2019	Associate Scientist I Dr. Ingrid Olson's Cognitive Neuroscience Laboratory <i>Temple University, Philadelphia, PA</i>
MAY 2019 MAY 2017	Post-Bac Research Assistant Dr. Ingrid Olson's Cognitive Neuroscience Laboratory <i>Temple University, Philadelphia, PA</i>
JUN 2022 JAN 2018	Post-Bac Research Assistant Dr. Tania Giovannetti's Cognitive Neuropsychology Laboratory <i>Temple University, Philadelphia, PA</i>
JAN 2016 - JUN 2016	Undergraduate Research Assistant Dr. Ingrid Olson's Cognitive Neuroscience Laboratory <i>Temple University, Philadelphia, PA</i>

## ADMINISTRATIVE EXPERIENCE

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AUG 2023	Lab Manager
JUN 2016	Dr. Ingrid Olson's Cognitive Neuroscience Laboratory <i>Temple University, Philadelphia, PA</i>
SYSTEMS	Concur, Cognos, Self-Service Banner (Budget Queries), TUMarketplace, J.P. Morgan Paymentnet, TUHelp (ticket submissions), Google Sites, SONA, Wordpress Editor

## SAFETY TRAINING

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<i>Present</i> SEPT 2019	Temple University Brain Research Imaging Center Level 3 Access <i>Temple University, Philadelphia, PA</i> I have completed level 3 access training in our department's brain imaging center, allowing me to lead MRI scans, set up protocols, schedule appointments, perform screening, operate the SIEMENS console, and supervise and manage the acquisition and maintenance of our MRI data. Level 3 access requires having extensive background of the safety procedures required for operating the MRI, and knowledge of the necessary response protocols to follow in the event of an emergency.
<i>Present</i> SEPT 2018	Building Emergency Management Team Member <i>Weiss Hall • Temple University, Philadelphia, PA</i> As part of Temple's emergency response team, I am in charge of managing my floor during a variety of emergency procedures including evacuation, shelter-in-place, and lock-down scenarios. My main function is to ensure building occupants on my floor are compliant with safety protocols, and that they are safe throughout drills and real-life building emergencies.

## TEACHING EXPERIENCE

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FALL 2024	Graduate Teaching Assistant for PSY2501, Behavioral Neuroscience <i>Dr. Rani Vasudeva • Temple University, Philadelphia, PA</i>
FALL 2024	Guest Lecturer on Cerebellar Contributions to Cognitive Behavior, PSY5100, Graduate Topical Seminar in Cognitive Neuroscience <i>Dr. Ingrid Olson • Temple University, Philadelphia, PA</i>

## HONORS & SCHOLARSHIPS

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JAN 2016 - MAY 2017	Honors Psychology Program Student, <b>Temple University</b>
AUG 2013 - MAY 2017	Dean's List, College of Liberal Arts, Spring & Fall Semesters
AUG 2013	Presidential Scholarship

## PUBLICATIONS

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- AUG 2024 **Hoffman, L.J.**, Foley, J., Leong, J.K., Sullivan-Toole, H., Elliott, B.L., Olson, I.R. (*in press*). A Virtual *in vivo* Dissection, and Analysis of Socio-Affective Symptoms related to Cerebellum-Midbrain Reward Circuitry in Humans. *Journal of Neuroscience*. <https://doi.org/10.1523/JNEUROSCI.1031-24.2024>
- APR 2024 **Hoffman, L.J.\***, Foley, J.\*, Tanriverdi, B., Chein, J.M., Olson, I.R. (2024). Awake Targeted Memory Reactivation Doesn't Work. *Memory & Cognition*. <https://doi.org/10.3758/s13421-024-01576-x>
- SEPT 2023 Sullivan-Toole, H., Jobson, K.R., **Hoffman, L.J.**, Olson, I.R., & Olino, T.M. (2023). Adolescents at-risk for depression show increase in white matter microstructure with age across diffuse areas of the brain; *Developmental Cognitive Neuroscience*. <https://doi.org/10.1016/j.dcn.2023.101307>
- APR 2023 Olson, I.R., **Hoffman, L.J.**, Jobson, K. R., Popal, H., & Wang, Y. (2023). Little brain, little minds: The big role of the cerebellum in social development. *Developmental Cognitive Neuroscience*; <https://doi.org/10.1016/j.dcn.2023.101238>
- FEB 2023 **Hoffman, L.J.**, Mis, R.E., Brough, C., Ramirez, S., Langford, D., Giovannetti, T., Olson, I.R. (2023). Concussions in young-adult athletes: no effect on cerebral white matter. *Frontiers in Human Neuroscience*; doi: 10.3389/fnhum.2023.1113971
- SEPT 2022 Jobson, K.R., **Hoffman, L.J.**, Metoki, A., Popal, H., Dick, A. S., Reilly, J., Olson, I.R. (2022). Language and the Cerebellum: Structural Connectivity to the Eloquent Brain. *Neurobiology of Language*; [https://doi.org/10.1162/nol\\_a\\_00085](https://doi.org/10.1162/nol_a_00085)
- JUN 2022 Frazier, M.R., **Hoffman, L.J.**, Popal, H., Sullivan-Toole, H., Olino, T.M., Olson, I.R. (2022). A missing link in affect regulation: The cerebellum. *Social Cognitive and Affective Neuroscience*; doi: 10.1093/scan/nsac042.
- FEB 2022 **Hoffman, L.J.**, Ngo, C.T., Canada, K.L., Pasternak, O., Zhang, F., Riggins, T., Olson, I.R. (2022). The fornix supports episodic memory during childhood. *Cerebral Cortex*; <https://doi.org/10.1093/cercor/bhac022>.
- Under revision* Foley, J.M., Tani, N., **Hoffman, L.J.**, Hill, K., Litwin, J., Leong, J.K., Bugden, S., Newcombe, N. & Olson, I.R. (*under revision*). Counting Connections: Investigating White Matter Microstructure Underlying Math Skills in Young Children. *Mind, Brain, & Education*
- In prep* **Hoffman, L.J.**, Smith, E., Kring, A.M., Breen, E.C., Cohn, B.A., Cirillo, P.M., Krigbaum, N.Y., D'Esposito, M.T., Ellman, L.M., & Olson, I.R. (*in prep*). Exposure to Maternal Inflammation Reaps Consequences for Memory Capacities in Middle Life.
- In prep* **Hoffman, L.J.** (*in prep*). On specificity and confounding in risk assessment for dementia: perspectives from cognitive science. *Frontiers in Public Health, Letter to the Editor*.
- In prep* **Hoffman, L.J.**, Mis, R.E., Ramirez, S., Langford, D., Giovannetti, T., Olson, I.R. (*in prep*). Semantic interhemispheric connectivity and scholastic achievement in collegiate athletes with and without a history of concussion.
- In prep* Mis, R.E., Ando, T., Yamaguchi, T., Brough, C., Michalski, L., **Hoffman, L.J.**, Olson, I.R., Giovannetti, T. (*in prep*). Assessing everyday functioning in young adult athletes using the goal-control framework: Relations between the Virtual Kitchen Challenge (VKC) paradigm, cognition, and lifetime concussion history.

## PRESENTATIONS & POSTERS

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- APR 2024 **Cognitive Neuroscience Society | Poster:** Linda Hoffman, Julia Foley, Josiah Leong, Holly Sullivan-Toole, Blake L. Elliott, & Ingrid Olson. *Translational Cerebellum-Midbrain Reward Circuitry in Humans: an in vivo dissection with implications for socio-affective functioning*
- APR 2024 **Social and Affective Neuroscience Society | Poster:** Linda Hoffman, Julia Foley, Josiah Leong, Holly Sullivan-Toole, Blake L. Elliott, & Ingrid Olson. *Translational Investigations of Cerebello-Midbrain Contributions to State and Trait Socio-Affective Functioning*
- MAR 2024 **Eastern Psychological Association | Poster:** Julia Foley, Naoya Tani, Josiah Leong, Linda Hoffman, Kate Hill, Josh Litwin, Nora Newcombe & Ingrid Olson. *Counting Connections: Investigating Math Skills and White Matter in Children*
- JAN 2024 **Temple University Graduate Interview Day Poster Sessions 1 & 2 | Poster:** Linda Hoffman, Katie Jobson, Holly Sullivan-Toole, Blake Elliott, Julia Foley, & Ingrid Olson. *Cerebello-Mesencephalic Structural Connectivity & its Associations with Socio-Affective Functioning*
- APR 2023 **Temple University Neuroscience Research Day | Poster:** Julia Foley, Linda Hoffman, Büsra Tanrıverdi, Yuliana Fartachuk, Jason Chein, & Ingrid Olson. *Targeted Memory Reactivation During Wakefulness: Does it Harm or Improve Memory?*
- APR 2023 **Social and Affective Neuroscience Society | Poster:** Linda Hoffman, Katie Jobson, Holly Sullivan-Toole, Blake Elliott, Julia Foley, & Ingrid Olson. *Human cerebellar projections to the ventral tegmental area: Implications for social and affective dysregulation*
- APR 2023 **Social and Affective Neuroscience Society | Poster:** Holly Sullivan-Toole, Katie Jobson, Lindsey Stewart, Linda Hoffman, Josiah Leong, Ingrid Olson, & Thomas Olin. *Adolescents at-risk for depression show diffuse increases in white matter microstructure with age, including regions consistent with subcortical projection pathways implicated in depression.*
- MAR 2023 **Temple University Undergraduate Research Day | Poster:** Giovanna A. O. Campos, Kim Nguyen, Linda Hoffman, Katie Jobson, John Erardi, Nora Newcombe, & Ingrid Olson. *Relating the fornix to episodic memory and spatial navigation in development*
- NOV 2022 **Society for Neuroscience | Poster:** Giovanna A. O. Campos, Kim Nguyen, Linda Hoffman, Katie Jobson, John Erardi, Nora Newcombe, & Ingrid Olson. *Relating the fornix to episodic memory and spatial navigation in development*
- APR 2022 **Cognitive Neuroscience Society | Poster:** Linda Hoffman, Rachel Mis, Tania Giovannetti, & Ingrid Olson. *Concussion Status Moderates the Effect of Semantic Processing Speed on School Performance*
- FEB 2022 **International Neuropsychological Society | Poster:** Rachel Mis, Taisei Ando, Take Yamaguchi, Caroline Brough, Leah Michalski, Linda Hoffman, Ingrid Olson, & Tania Giovannetti. *Assessing Everyday Functioning in Young Adult Athletes Using the Goal-Control Framework: Relations Between the Virtual Kitchen Challenge (VKC) Paradigm, Cognition, and Lifetime Concussion History.*
- APR 2021 **Temple University Neuroscience Research Day | Poster:** Caroline Brough, Linda Hoffman, Rachel Mis, Tania Giovannetti, & Ingrid Olson. *Validation of the Ohio State TBI Identification Method in Collegiate Athletes*
- MAR 2021 **Cognitive Neuroscience Society | Poster:** Linda Hoffman, Zoë Ngo, Kelsey Canada, Fan Zhang, Ofer Pasternak, Tracy Riggins, & Ingrid Olson. *The Role of the Fornix in Episodic Memory Development*

## PRESENTATIONS & POSTERS (CONT.)

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- MAR 2021 **Cognitive Neuroscience Society | Poster:** Susan Benear, **Linda Hoffman**, Katie Jobson, Haroon Popal, Zachary Heffernan, Nora Newcombe, & Ingrid Olson. *White Matter Correlates of Explicit Memory in Young Adults*
- MAR 2021 **Cognitive Neuroscience Society | Poster:** Katie Jobson, **Linda Hoffman**, & Ingrid Olson. *White Matter Microstructure Supporting Empathy and Mentalizing*
- FEB 2021 **International Neuropsychological Society | Poster:** **Linda Hoffman**, Rachel Mis, Tania Giovannetti, & Ingrid Olson. *Concussion Status, but Not Fronto-Striatal White Matter, Predicts Reward-Based Impulsivity*
- FEB 2021 **International Neuropsychological Society | Poster:** Rachel Mis, Taisei Ando, Take Yamaguchi, Caroline Brough, **Linda Hoffman**, Ingrid Olson, & Tania Giovannetti. *Relations among Executive Functioning, Lifetime Concussion History, and Performance on a Virtual Reality Assessment of Everyday Functioning in Young Adult Athletes*
- OCT 2020 **Society for the Neurobiology of Language | Poster:** **Linda Hoffman**, Rachel Mis, Caroline Brough, Tania Giovannetti, & Ingrid Olson. *The Contribution of Concussion Status, Semantic Processing Speed, Educational Attainment, and Corpus Callosal Microstructure on Scholastic Achievement in Collegiate Athletes: A Pilot Study*
- OCT 2020 **Academy of Aphasia | Poster:** **Linda Hoffman**, Rachel Mis, Tania Giovannetti, & Ingrid Olson. *The Contribution of Concussion Status, Semantic Processing Speed, and Educational Attainment on Scholastic Achievement in Collegiate Athletes*
- FEB 2020 **International Neuropsychological Society | Poster:** **Linda Hoffman**, Rachel Mis, Tania Giovannetti, & Ingrid Olson. *The Effects of Repeated Concussion on Interhemispheric Processing Speed in Collegiate Athletes: A Pilot Study*
- FEB 2020 **International Neuropsychological Society | Poster:** Rachel Mis, Taisei Ando, Take Yamaguchi, **Linda Hoffman**, Ingrid Olson, & Tania Giovannetti. *Differential Contributions of Executive Function Components to a Virtual-Reality Assessment of Everyday Functioning*
- MAR 2018 **Cognitive Neuroscience Society | Poster:** **Linda Hoffman**, Zoë Ngo, Kylie Alm, & Ingrid Olson. *Awake Targeted Memory Reactivation and Foreign Language Learning*
- APR 2017 **Temple Undergraduate Research Forum | Presentation:** *Honors Thesis*
- APR 2017 **Psychology Honors Program Poster Session**

## AFFILIATIONS

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- JUL 2017 - Present Phi Beta Kappa Society  
NOV 2015 - Present Golden Key Honors Society

## COMPUTER SKILLS

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- ADVANCED KNOWLEDGE: MICROSOFT OFFICE (Word, Excel, PowerPoint), IWORK (Pages, Numbers, Keynote), Qualtrics, SPSS, JASP
- INTERMEDIATE KNOWLEDGE: ADOBE (Photoshop, Illustrator), E-Prime, L<sup>A</sup>T<sub>E</sub>X, Command Line (BASH), FSL, R, PYTHON (PANDAS, PsychoPy), SIEMENS MRI CONSOLE, SPM, TrackVis, 3DSlicer Amazon, Mechanical Turk (MTurk), RedCap, MRTrix3, ArcGIS, SaTScan Java (jsPsych)
- BASIC KNOWLEDGE: MATLAB, Connectome Workbench, HTML, CONN Toolbox, BIOPAC (AcqKnowledge), EyeLink 1000

## MENTORSHIP

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- FALL 2024 - PRESENT Mentor to doctoral student, **Nicole Serino**  
*I am currently helping Nicole learn how to conduct psychophysiological research in jsPsych, develop coding skills, and learn about cerebellar theories of socio-affective behavior*
- FALL 2024 - PRESENT Mentor to undergraduate research assistant, **Lily Prendergast**  
*I am currently helping Lily learn how to conduct human subjects research and develop her coding skills.*
- FALL 2024 - PRESENT Mentor to undergraduate research assistant, **Ranesh Mopuru**  
*I am currently helping Ranesh learn diffusion imaging and neuroanatomy*
- FALL 2024 - PRESENT Mentor to undergraduate research assistant, **Humaira Manzoor**  
*I am currently helping Humaira learn how to conduct human subjects research and develop her coding skills.*
- FALL 2022 - 2024 Mentor to masters research assistant, **Julia Foley**  
*I am currently helping Julia learn neuroimaging and develop her coding skills.*
- FALL 2022 - 2024 Mentor to Mid-Atlantic Diversity Scholar (MiNDS), and NSF-GRFP recipient, **Giovanna "Gigi" Arantes De Oliveira Campos**  
*I assisted Gigi in learning diffusion tensor imaging to image the fornix. Her work on the fornix has been presented at the Society for Neuroscience. She has gone on to pursue her PhD in clinical psychology at UC San Diego*
- FALL 2020 - FALL 2022 Dissertation analysis consultant to **Arielle Ered, Ph.D.**  
*I assisted Arielle with the diffusion imaging portion of her dissertation analyses. She is now a post-doctoral fellow at the University of Pennsylvania.*
- FALL 2020 - SPRING 2022 Mentor to undergraduate research assistant, **Jared Schwartz**  
*Jared is now in medical school at Erie Medical College.*
- FALL 2017 - SPRING 2019 LAURA Scholarship Recipient Mentor to **Iya Hanik**  
*Iya worked at Yale University as a post-baccalaureate research assistant under Dr. Hedy Kober.*
- FALL 2017 - SPRING 2019 LAURA Scholarship Recipient Mentor to **Richard Ho**

## OUTREACH

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- FALL 2022 - Present Weekly diffusion imaging coding assistance office hours
- SPRING 2023 CEREBELLUM JOURNAL CLUB organizer at TEMPLE UNIVERSITY
- FALL 2020 - FALL 2023 WHITE MATTER JOURNAL CLUB organizer at TEMPLE UNIVERSITY

## PEER REVIEW

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- AUG 2022 Read, M. L., Umla-Runge, K., Lawrence, A., Costigan, A., Hsieh, L. T., Chamberland, M., Ranganath, C., & Graham, K. (accepted). A role for the fornix in temporal sequence memory. *European Journal of Neuroscience*. Reviewed with Ingrid R. Olson.
- DEC 2020 Zuk, J., Yu, X., Sanfilippo, J., Figuccio, M. J., Dunstan, J., Carruthers, C., Sideridis, G., Turesky, T. K., Gagoski, B., Grant, P. E., & Gaab, N. (accepted). White matter in infancy is prospectively associated with language outcomes in kindergarten. *Developmental Cognitive Neuroscience*. Reviewed with Ingrid R. Olson & Katie R. Jobson.
- JUL 2019 Chen, H., Huang, L., Li, H., Qian, Y., Yang, D., Luo, C., Li, M., Zhang, B., & Xu, Y. (rejected). Microstructural disruption of the right inferior frontooccipital fasciculus and the right inferior longitudinal fasciculus contribute to WMH-related cognitive impairment. *Aging and Disease*. Reviewed with Ingrid R. Olson.

## GRANTS & FELLOWSHIPS

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- APR 2024 **National Science Foundation** | GRADUATE RESEARCH FELLOWSHIP PROGRAM | HONORABLE MENTION  
*Translational applications for diffusion-weighted imaging investigations of cerebello-midbrain connectivity for negative symptoms in psychosis*
- DEC 2023 **Temple University**: Two-year fellowship support from the Graduate School in recognition of academic achievement - the University's most prestigious award  
AMOUNT: \$34,000 per year
- APR 2023 **National Science Foundation** | GRADUATE RESEARCH FELLOWSHIP PROGRAM | HONORABLE MENTION  
*Diffusion-weighted imaging investigations of cerebello-mesocortical projections in affect dysregulation*

## COMPUTATIONAL & STATISTICAL COURSEWORK

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- SPRING 2024 **Temple University**: GIS for Health Data Analysis (GUS5069 | Daniel Wiese)  
Final Grade: A
- SPRING 2023 **Temple University**: Epidemiological Research Methods II (EPBI8202 | Hoda Jradi)  
Audit
- FALL 2022 **Temple University**: Epidemiological Research Methods I (EPBI5201 | Graciela Jaschek)  
Grade Received: A
- SPRING 2022 **Temple University**: Structural Equation Modelling (PSY8032 | Thomas Olino)  
Grade Received: A-
- JAN 2022 **University of Maryland**: Introduction to Longitudinal Structural Equation and Latent Growth Modeling (Measurement, Statistics and Evaluation (EDMS) Short Course | Gregory R. Hancock)
- FALL 2021 **Temple University**: Survey of Multivariate Statistics (PSY8031 | Thomas Olino)  
Grade Received: A
- SPRING 2021 **Temple University**: Graduate Statistics for Psychology II (PSY8021 | Andrew Karpinski)  
Grade Received: A-
- FALL 2020 **Temple University**: Graduate Statistics for Psychology I (PSY8011 | Andrew Karpinski)  
Grade Received: A

## WORKSHOPS & SEMINARS

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- MAR 2021 **Indiana State University**: DIPY Workshop - Online Edition
- FEB 2020 **International Neuropsychological Society**: Traumatic Brain Injury in Criminal Justice: (Hard) Lessons from Colorado (CE 12 | Kim Gorgens)
- OCT 2019 **Massachusetts General Hospital**: Connectivity Course at the Martinos Center for Biomedical Imaging

## ACKNOWLEDGEMENTS

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- AUG 2021 Wang, Y., Metoki, A., Xia, Y., Zang, Y., He, Y., & Olson, I. R. A large-scale structural and functional connectome of social mentalizing. *NeuroImage*; <https://doi.org/10.1016/j.neuroimage.2021.118115>  
*For assistance in identifying mentalizing network regions of interest (ROIs) in the Human Connectome Project dataset using Connectome Workbench software.*

## LANGUAGE SKILLS

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- ENGLISH Native language
- FRENCH Competence in reading, writing, listening, and speaking