**Josh L. Litwin**

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**Education**

**University of Pennsylvania, Philadelphia, PA**

Bachelor of Arts, *Cum Laude*: May 2022

Major: Cognitive Neuroscience

Minor: Ancient History

**Research Experience**

**Kid Memory Lab, Temple University, Philadelphia, PA**

PIs: Nora S. Newcombe, Ph.D. & Ingrid R. Olson, Ph.D.

Summer 2022 - Present

* Assisted with recruitment, stimuli design, data collection, and analysis for R01-funded study on episodic memory and hippocampal development in children 4-8 years old.
* Trained in administration of MRI scanning and use of neuroimaging software such as ITK snap and AFQ to trace hippocampal volume and perform diffusion imaging.

**Jaffee Lab, University of Pennsylvania, Philadelphia, PA**

PI: Sara Jaffee, Ph.D.

Spring 2022

* Oversaw screening and scheduling of subjects for longitudinal study on the relationship between socio-economic background, academic achievement, and mental health.
* Coordinated introductory sessions in which participants received an explanation of study protocols, risks, and benefits.

**Computational Behavioral Science Lab, University of Pennsylvania, Philadelphia, PA**

PI: Sudeep Bhatia, Ph.D.

Spring 2021 - Spring 2022

* Completed independent study on individual differences in thinking styles, found positive correlation between open-mindedness and number of thoughts generated for a given decision.
* Conducted literature review on thinking styles and decision-making.
* Designed Qualtrics survey for experiment in which subjects were asked to list all thoughts in response to being presented with a decision.
* Administered and managed surveys on Prolific, oversaw participant compensation, and evaluated registration data.

**The Changing Brain Lab, University of Pennsylvania, Philadelphia, PA**

PI: Allyson Mackey, Ph.D. Department of Psychology

Fall 2021 - Spring 2022

* Administered and scored neuropsychological assessments (Wechsler adult and child scales).
* Worked with children to help them be still during MRI.
* Used ELAN to record and transcribe data during remote behavioral assessments. Data was then used by Amazon Rekognition to track child attention.

**Well-Being and Morality Lab, University of Pennsylvania, Philadelphia, PA**

PI: Geoff Goodwin, Ph.D., Supervisor: Jessie Sun, Ph.D.

Summer 2021 - Fall 2021

* Developed and distributed Qualtrics survey for study on the relationship between morality and well-being.
* Oversaw study sign-ups and cancellations.
* Managed participant compensation and course credit.
* Assisted in study recruitment and enrollment.

**Research Assistant Training Program, University of Pennsylvania, Philadelphia, PA**

Spring 2021

* Completed a 6-week course covering research skills in behavioral science: pre-registration, study design, and statistical analysis.
* Used R to conduct a series of correlational experiments relating to undergraduate workload, testing relationship between class year and time spent studying per week.

**Department of Psychology, University of Pennsylvania, Philadelphia, PA**

Gordon Bermant, Ph.D.

Fall 2019:

* Conducted data analysis of surveys relating to religious belief and cognition.
* Assisted in literature review on interaction of thought and religion.

**Boston Psychoanalytic Society and Institute, Newton, MA**

Summer 2017: Research Assistant

* Helped to perform various clerical tasks such as organization and summary of numerous documents.
* Compiled and archived thousands of psychoanalytic texts in independent project.

**Professional Experience**

**Mathnasium Learning Center, Newton, MA**

Summer 2020 - Fall 2021: Math Tutor

* Held tutoring sessions over zoom and in-person, instructed K-8 students on a variety of math subjects, ranging from basic arithmetic to advanced algebra.
* Recorded detailed observations of how students understood the material, student behavior, and effective strategies for future tutoring sessions.

**Camp Modin, Belgrade, ME**

Summer 2018, Summer 2019: Overnight Camp Counselor

* Supervised ~60 12- and 15-year-old campers, with responsibilities such as managing interpersonal conflict, coordinating daily activities for each age group, and helping with administrative tasks.

**Brigham and Women’s Faulkner Hospital, Boston, MA**

PI: Christopher G. AhnAllen, Ph.D.

Spring 2018: Clinical Intern

* Worked in an inpatient psychiatric unit, coordinated daily activities for patients.
* Observed group therapy sessions.

**Publications**

Jobson, K.R., Arantes de Oliveira Campos, G., **Litwin, J.**, Olson, I. R. (2024 - in prep). The cerebellum, language, and autism.

**Litwin, J.**, Foley, J.M., Hill, K., Newcombe, N.S., Olson, I.R. (2024 - in prep) Individual differences in children’s autobiographical memory: Relationship to neural white matter. *Memory*

Foley, J.M., Tani, N., Hoffman, L.J., Hill, K., **Litwin, J.**, Leong, J.K., Bugden, S., Newcombe, N.S., & Olson, I.R. (2024 - submitted) Counting connections: Investigating white matter microstructure underlying math skills in young children. *Mind, Brain, and Education*

**Poster Presentations**

**Litwin, J.**, Cohen, S., Hill, K., Olson, I.R., & Newcombe, N.S. White matter microstructure and autobiographical memory in early-middle childhood. Poster presented at *Social and Affective Neuroscience Society,* Toronto, Canada, April 2024.

Hill, K., Cohen, S., **Litwin, J.**, Olson, I.R., & Newcombe, N.S. (2024). The interplay of narrative ability and delayed memory recall in children. Poster presented at *Cognitive Development Society*, Pasadena, CA, March 2024.

Hill, K., Foley, J.M., Tani, N., Leong, J.K., **Litwin, J.**, Newcombe, N.S., & Olson, I.R. (2024). White matter microstructure and narrative proficiency in typically developing children. Poster presented at *Eastern Psychological Association*, Philadelphia, PA, February 2024.

**Litwin, J.**, Cohen, S., Newcombe, N.S., & Olson, I.R. Decentering and theory of mind in early childhood. Poster presented at *Society for the Study of Human Development*, Philadelphia, PA, October 2023.

**Skills & Certifications**

**Research:** R, Bash (beginner), Matlab (beginner), Qualtrics, Prolific, ELAN, CITI certification, REDcap, Temple University Brain Research Imaging Center (Level 3 clearance), ITK-SNAP, Zotero

**Leadership:** Tau Epsilon Phi Fraternity, Social Chair; Jewish Renaissance Project, Fellow; Wharton Neuroscience Initiative Student Society, Member; Penn Benjamins Peer Counseling, Counselor

**Other:** Spanish (conversational), event planning, working with children, Red Cross First Aid certification, website design