

Madison D. Paron

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Education

2019	University of Pennsylvania B.A. in Cognitive Science, <i>magna cum laude</i> Concentration in Language and Mind Minor in ASL / Deaf Studies	Cumulative GPA 3.85
2017	Oklahoma State University (transferred) Candidate for B.S. in Comm. Sciences and Disorders Minor in ASL	
2015	Cashion High School, Oklahoma Valedictorian, Academic All-State	GPA 4.00

Research Experience

2025–Present	Language & Cognition Lab , PI: Dr. Michael Frank Research Assistant, Stanford University <i>BabyView Project</i> <ul style="list-style-type: none">• Investigating the relationship between early language input, visual attention, and cognitive development in infants and toddlers• Engaging in literature synthesis to support hypothesis generation and interpretation of developmental patterns in early communicative behavior
2023–Present	Child Language Lab , PI: Dr. Kathryn Schuler Language & Cognition Lab , PI: Dr. Anna Papafragou Research Coordinator, University of Pennsylvania <ul style="list-style-type: none">• Manage lab meetings, recruit participants, hire and manage staff, and purchase supplies• Manage IRB submissions and modifications for five protocols• Program experiments in PCIBex and conduct adult (Prolific) and child studies (in-person and via Zoom); analyze data in R and Python
2020–2023	Computational Memory Lab , PI: Dr. Michael J. Kahana Research Coordinator, University of Pennsylvania (2020–2023) Research Assistant, University of Pennsylvania (2020) <ul style="list-style-type: none">• Managed all lab meetings, purchases for technology and study supplies, deadlines for grants, conference submissions, and IRB continuing reviews• Drafted and submitted grants and progress reports for the NIH, NSF, and DoD• Managed IRB submissions and modifications for three protocols including an FDA abbreviated IDE with 8 reliant hospital sites• Organized annual conferences and the preparation and publication of the Oxford Handbook of Human Memory• Recruited participants, conducted EEG and iEEG experiments (with brain stimulation), processed brain imaging, and paid participants• Programmed experiments for Amazon MTurk and analyzed data in Python

- 2018–2020 [Child Language Lab](#), PI: Dr. Kathryn Schuler
 Lead Research Assistant, University of Pennsylvania (2018–2020)
 Research Assistant, University of Pennsylvania (2018)
- Identified schools and camps for participant recruitment and reached out to families in the Salesforce database
 - Communicated with families about experiments, child participation, and consent forms
 - Conducted artificial language behavioral experiments with children
- 2018–2019 [The Changing Brain Lab](#), PI: Dr. Allyson Mackey
 Research Assistant, University of Pennsylvania
- Recruited families at local parks to participate in fMRI studies
 - Completed Penn Level 1 MRI training, analyzed MRI images in FreeSurfer, and worked in Linux environment

Research Interests

Neurolinguistics | Language Acquisition | Speech Perception | Human Memory

Publications & Working Papers

Kahana, M. J., Lohnas, L. J., Healey, M. K., Aka, A., Broitman, A. W., Crutchley, P., Crutchley, E., Alm, K. H., Katerman, B. S., Miller, N. E., Kuhn, J. R., Li, Y., Long, N. M., Miller, J., **Paron, M. D.**, Pazdera, J. K., Pedisich, I., Rudoler, J. H., Weidemann, C. T. (2024). The Penn Electrophysiology of Encoding and Retrieval Study. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 50(9), 1421–1443. <https://doi.org/10.1037/xlm0001319>

Paron, M. D., Healy, A., & Kahana, M. J. (*Invited for resubmission*). Reconstruction of Temporal and Spatial Order Information. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, <https://doi.org/10.31234/osf.io/2ucfj>

Paron, M. D., Paron, J. D., & Kahana, M. J. (*Invited for resubmission*). A dynamic model of context-based retrieval. *Journal of Mathematical Psychology*, <https://doi.org/10.31219/osf.io/p9mkn>

Paron, M. D. & Papafragou, A. (*Submitted*). Children use goals to determine event culmination.

Li, D., **Paron, M. D.**, & Schuler, K. (*in prep*). Adapting the infant head turn preference procedure for the web.

Lee, S., **Paron, M.D.**, & Papafragou, A. (*in prep*). Conceptual and linguistic factors affect how learners name entities with non-canonical structure.

Conference Talks

* denotes the presenting author

*Lee, S., **Paron, M.D.**, & Papafragou, A. (2025, January). Conceptual and linguistic factors affect how learners name entities with non-canonical structure. *The 98th Annual Meeting of the Linguistic Society of America*. Philadelphia, USA.

Paron, M.D., *Healy, A.F., & Kahana, M.J. (2023, May). Reconstructing temporal and spatial order information. *The Society of Experimental Psychologists*. Philadelphia, USA.

*Kahana, M.J., Lohnas, L.J., Healey, M.K., ... **Paron, M.D.**, Pazdera, J.K., Pedisich, I., Rudoler, J.H., Weidemann, C.T. (2023, May). The Penn Electrophysiology of Encoding and Retrieval Study. *The Society of Experimental Psychologists*. Philadelphia, USA.

***Paron, M.D.**, Paron, J.D., & Kahana, M.J. (2022, July). A context-based model of recall and decisions. *Society for Mathematical Psychology*. Toronto, Canada. (Current title: A dynamic model of context-based retrieval)

Poster Presentations

Paron, M.D. & Papafragou, A. (2025, March). Children use goals to determine event culmination. *The 38th Annual Conference on Human Sentence Processing*. University of Maryland, USA.

Paron, M.D., Healy, A.F., & Kahana, M.J. (2023, April). Reconstructing temporal and spatial order information. *International Conference on Learning and Memory*. Huntington Beach, USA. (Invited, but could not attend)

Paron, M.D., Healy, A.F., & Kahana, M.J. (2022, May). Temporal dynamics of order reconstruction. *Context and Episodic Memory Symposium*. Philadelphia, USA. (Current title: Reconstructing temporal and spatial order information)

Paron, M.D., Paron, J.D., & Kahana, M.J. (2022, May). A context-based model of recall and decisions. *Context and Episodic Memory Symposium*. Philadelphia, USA. (Current title: A dynamic model of context-based retrieval)

Honors & Grants

2024	NSF Graduate School Fellowship Program — <i>Application Submitted</i>
2019	UPenn Top Graduate in American Sign Language/Deaf Studies
2016	Oklahoma State Top 20 Freshman

Other Activities

- 2015–2019 [Penn-in-Hand / OSU American Sign Language Club](#)
Board Member
- Organized Silent Dinners, Deaf movie nights, and speaker events with Wolf Humanities Center (e.g., Ted Supalla, Calvin Young, and Mark Drolsbaugh) for the Deaf community and ASL students
 - Gained NCAA approval and sponsorship to be the only Big 12 Conference school to sign the National Anthem live at sporting events; coordinated participation of Deaf community members and students
- 2017–2019 [Penn Women's Biomedical Society](#)
Board Member
- Organized physician and research speakers and events like MCAT tutor sessions, medical school counselor sessions, physician shadowing opportunities, and summer internships for members
 - Coordinated volunteers for the Philadelphia Transplant House and American Red Cross
- 2018 [Hearts for Hearing](#)
Spring Intern
- Shadowed Sara Neumann, Au.D.; learned how to conduct a hearing test and program various assistive technologies for patients (e.g., hearing aids, cochlear implants, and speech recognition devices)
- 2015–2017 [National Student Speech Language and Hearing Association](#)
Campus Board Member
- Planned meetings held to discuss current issues in speech-language pathology, learn about educational opportunities related to communication sciences and disorders, and arrange community service events
- 2015–2017 [Oklahoma State Speech-Language-Hearing Clinic](#)
- Worked over 150 hours evaluating various conditions (e.g., phonological production, feeding, and sensory conditions) and creating treatment plans to improve quality of life in children

Programs/Environments

Python | R | Matlab | LaTeX | Linux | C++ | Java | FreeSurfer

Personal Information

Born: March 24, 1997 — Enid, OK
Citizenship: USA
Married to [James D. Paron](#)