

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 C. Frank Volunteer, Stanford University <i>BabyView Project</i> <ul style="list-style-type: none">Coordinating onboarding and communication with participating families; assisting them with device setup and troubleshooting during data collectionProcessing weekly video uploads; monitoring data quality, documenting issues, and helping ensure smooth progression of each family's longitudinal data collection
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">Managed lab meetings, participant recruitment, hired and managed staff, and purchased suppliesManaged IRB submissions and modifications for five protocolsProgrammed experiments in PCIbex and conducted adult (Prolific) and child studies (in-person and via Zoom); analyzed 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 reviewsDrafted and submitted grants and progress reports for the NIH, NSF, and DoDManaged IRB submissions and modifications for three protocols including an FDA abbreviated IDE with 8 reliant hospital sitesOrganized annual conferences and the preparation and publication of the Oxford Handbook of Human MemoryRecruited participants, conducted EEG and iEEG experiments (with brain stimulation), processed brain imaging, and paid participantsProgrammed experiments for Amazon MTurk and analyzed data in Python

2018–2020	<p>Child Language Lab, PI: Dr. Kathryn Schuler</p> <p>Lead Research Assistant, University of Pennsylvania (2018–2020)</p> <p>Research Assistant, University of Pennsylvania (2018)</p> <ul style="list-style-type: none"> 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	<p>The Changing Brain Lab, PI: Dr. Allyson Mackey</p> <p>Research Assistant, University of Pennsylvania</p> <ul style="list-style-type: none"> 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

Child Development | Language Acquisition | Pragmatic Development | Social Inference in Communication

Publications

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

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>

Working Papers

Paron, M. D. & Papafragou, A. (*Invited for resubmission*). Children use goals to determine event culmination. *Journal of Cognition and Development*.

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, November). Children use goals to determine event culmination. *The 50th Annual Boston University Conference on Language Development*. Boston University, USA.

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 & Awards

2025	BUCLD Paula Menyuk Award
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

References

Michael Kahana

PI, Computational Memory Lab | kahana@psych.upenn.edu

Anna Papafragou

PI, Language & Cognition Lab | anna4@sas.upenn.edu

Kathryn Schuler

PI, Child Language Lab | kschuler@sas.upenn.edu

Alice Healy

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