

Hadar Karmazyn-Raz

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Education

PhD Psychology (Developmental) - Indiana University, Bloomington, IN, *May 2022*

Individualized Minor: Computational Methods

Research Advisor and Committee Chair: Dr. Linda B Smith

Research Committee: Drs. David Crandall, Richard Betzel, Dan Kennedy, and Chen Yu

B.S. Psychology & Brain Sciences - Indiana University, Bloomington, IN, *May 2009*

Publications

Karmazyn-Raz, H., & Smith, L. B. (2023). Sampling statistics are like story creation: a network analysis of parent–toddler exploratory play. *Philosophical Transactions of the Royal Society B*, 378(1870), 20210358.

Smith, L. B., & Karmazyn-Raz, H. (2022). Episodes of experience and generative intelligence. *Trends in Cognitive Sciences*.

Karmazyn-Raz, H. & Smith, L.B. (2022) Discourse with Few Words: Coherence Statistics, Parent-Infant Actions on Objects, and Object Names. *Language Acquisition*.

Karmazyn-Raz, H., Abney, D. H., Crandall, D., Yu, C., & Smith, L. B. (2019, July). How do infants start learning object names in a sea of clutter?. In *CogSci... Annual Conference of the Cognitive Science Society. Cognitive Science Society (US). Conference (Vol. 2019, p. 521)*. NIH Public Access.

Abney, D. H., Karmazyn, H., Smith, L. B., & Yu, C. (2018). Hand-Eye Coordination and Visual Attention in Infancy. In *CogSci*.

Conference Presentations

Karmazyn-Raz, H. & Smith, L.B. (2018, July). Solving Referential Ambiguity Is Easy. *International Congress of Infant Studies*, Paris, France.

Karmazyn-Raz, H. & Smith, L.B. (2017, July). Like Moths to A Flame: How 3-Year Olds Distribute Gaze When Searching in Cluttered Arrays. *International Congress of Infant Studies*, Austria.

Karmazyn-Raz, H. & Smith, L.B. (2023, July). Putting Interaction Center-Stage for The Study of Knowledge Structures and Processes. *Cognitive Science Society (CogSci)*, Australia.

Awards & Honors

2023 IUB Provost's Travel Award for Women in Science (\$ 1,200)

2016-Present Indiana University Training Program in Integrative Developmental Research

2009 Excellence in Research Award (recognizes exemplary honors thesis research)

2009 Honors of the Department of Psychology & Brain Sciences

Teaching & Mentorship

Fall 2023 *Lead Instructor*, Developmental Psychology Lab, Capstone Course for Psychology Major Students (P429)

2016-2023 *Supervisor to Undergraduate Research Assistants*, 5-20 students per semester, Cognitive Development Lab (P397 & P398)

Spring 2020 *Associate Instructor*, Behavior Disorders of Childhood and Adolescence for Majors (P425), Lead Instructor: Dr. John E. Bates

Fall 2019 *Associate Instructor*, Methods of Experimental Psychology, Capstone Course for Psychology Major Students (P429), Lead Instructor: Dr. Richard Hullinger

Leadership Activities

Wonderlab Museum of Science, Health, and Technology
"Your Amazing Brain" Program Volunteer
Bloomington, IN

Center of Excellence for Women in Technology
Member
Indiana University

Special Skills

Computer programming - MATLAB, R, and python

Big-Data Analyses - Machine Learning, Network Analyses, Image Processing and Analyses

Eye-Tracking - collaborating gaze with screen and free viewing eye trackers, analyzing gaze using Yarbus software), experience with infants, young children and adults.

Egocentric-Vision – collecting, processing and analyzing data from head mounted cameras, experience with infants, young children and adults.

Professional Development

2019 Workshop: How systems learn, change, and self-organize: Insights from network science –
Bloomington, IN

2019 Workshop: Women in Science – Bloomington, IN

2017 Workshop: Egocentric Vision: From science to real-world applications –

Bloomington, IN

2016 Stats Camp course in Multilevel Modeling – Albuquerque, NM