Jessica Mankewitz

pronouns: they/them and she/her

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Education

University of California, Berkeley   Berkeley, California
B.A. Cognitive Science   *Fall 2015 - Spring 2020*

- **Relevant Courses**: Computational Models of Cognition, Language Acquisition, Developmental Psych, Language and Thought, Linguistic Data, Probability Theory, K-8 Teaching and Inquiry-Based Lesson Design

Research Experience

Lab Manager   Stanford University
Language and Cognition Lab   *September 2020 - Present*
PI: Dr. Michael C. Frank

- Designed, analyzed, and reported on experiments related to language acquisition and adult communication and coordination
- Maintained and contributed to lab software projects, see *Software* (below)
- Ran weekly meetings, coordinated lab finances, and maintained IRB and human subjects protocols
- Recruited, trained, and coordinated undergraduate RAs and research interns

Undergraduate Research Assistant   UC Berkeley
Language and Cognitive Development Lab   *September 2019 - September 2020*
PI: Dr. Mahesh Srinivasan; Direct Supervisor: Dr. Stephan Meylan

- Collected large scale, crowd-sourced annotations for corpora of child-directed and child-produced speech
- Helped develop training materials for over 200 subject pool workers to assist with tagging efforts

Manuscripts Under Review

Kachergis, G., Marchman, V. A., Dale, P., **Mankewitz, J.**, Frank, M. C. (Submitted). An Online Computerized Adaptive Test (CAT) of Children's Vocabulary Development in English and Mexican Spanish. Journal of Speech, Language, and Hearing Research. Preprint: https://psyarxiv.com/5ftsu

Peer-reviewed Conference Proceedings

Meylan*, S., **Mankewitz*, J.**, Floyd, S., Rabagliati, H., and Srinivasan, M. (2021). Quantifying Lexical Ambiguity in Speech To and From English-Learning Children. In *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*.
∗ *indicates equal contribution*

Zettersten, M., Bergey, C., Bhatt, N., ..., **Mankewitz, J.**, ..., Yurovsky, D., and Frank, M.C. (2021). Peekbank: Exploring children's word recognition through an open, large-scale repository for developmental eye-tracking data. In *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*

Conference Presentations

Mankewitz*, J., Boyce*, V., Waldon, B., Loukatou, G., Yu, D., Mu, J., Goodman, N., and Frank, M. (December 2021). Multi-party referential communication in complex strategic games. Talk to be presented at the Meaning in Context Workshop at the 35th Conference on Neural Information Processing Systems (NeurIPS 2021)
∗ *indicates equal contribution*

Kachergis, G., Marchman, V., Dale, P., Mehta, H., **Mankewitz, J.**, and Frank, M. (November 2021) An Online Computerized Adaptive Test of Children's Early Vocabulary Development. Poster to be presented by Philip Dale at the American Speech-Language-Hearing Association (ASHA) Convention.

Mankewitz, J., Meylan, S., Floyd, S., Rabagliati, H., and Srinivasan, M. (November 2021). English-learning children hear and use multiple meanings for words in early speech. Talk presented at the 46th Annual Boston University Conference on Language Development (BUCLD).

Zettersten, M., Saleh, A, Bhatt, N., Yurovsky, D., Xu, T. L., …, **Mankewitz, J**, …, and Frank, M C. (November 2021). Increases in speed and accuracy of children's online word recognition measured via a large-scale, open database of developmental eye-tracking data. Talk presented by Martin Zettersten at the 46th Annual Boston University Conference on Language Development (BUCLD).

Meylan*, S., **Mankewitz*, J.**, Floyd, S., Rabagliati, H., and Srinivasan, M. (July 2021). Quantifying Lexical Ambiguity in Speech To and From English-Learning Children. Talk presented by Stephan Meylan at the 43rd Annual Meeting of the Cognitive Science Society.
∗ indicates equal contribution

Zettersten, M., Bergey, C., Bhatt, N., …, **Mankewitz, J.**, …, Yurovsky, D., and Frank, M.C. (July 2021). Peekbank: Exploring children's word recognition through an open, large-scale repository for developmental eye-tracking data. Poster presented by Martin Zettersten at the 43rd Annual Meeting of the Cognitive Science Society.

Kachergis, G., Marchman, V., Dale, P., Mehta, H., **Mankewitz, J.**, and Frank, M. (April 2021) An Online Computerized Adaptive Test (CAT) of Children's Vocabulary Development in English and Mexican Spanish. Poster presented by George Kachergis at Society for Research in Child Development (SRCD) Biennial Meeting.

Work Experience

Student Technology Services   Berkeley, California
Student Technology Supervisor   *February 2018 - May 2020*

- Directly lead and mentored over a dozen Student Technology Consultants, as well as interviewed, hired, and trained new employees.
- Technical duties included imaging, deploying, and maintaining desktops and printers in the residence halls

Student Technology Consultant   *June 2017 - June 2018*

- Provided technical support, both in person and over the phone, to troubleshoot software and hardware issues for UC Berkeley students.

CalTeach   Berkeley, California
James Denman Middle School - Student Teacher   *Fall 2017*
Course: Classroom Interactions in Science and Mathematics - Equity and Urban Schools

- **Teaching Component**: Designed, facilitated, and reported on 6th grade (age 11-13y) math and science lesson plans focused on equity-based classroom practices.

- **Research Component**: Produced a qualitative analysis of students' responses to an area-finding geometry project. Presented results at the CalTeach research poster session.

Berkeley High School - Student Teacher   *Spring 2017*
Course: Knowing and Learning in Mathematics and Science

- **Teaching Component**: Designed, facilitated, and reported on lesson plans for a remedial algebra, mixed-grade classroom (age 14-17y) with an emphasis on naive mathematical reasoning and problem solving.

- **Research Component**: Compared the students' tendencies towards group collaboration and problem solving under direct, available supervision versus implied but concealed supervision. Presented results at the annual CalTeach research poster session.

Rosa Parks Elementary School - Student Teacher   *Spring 2016*
Course: K-8 Teaching and Inquiry-Based Lesson Design in the Science and Mathematics Classroom

- **Teaching Component**: Designed, facilitated, and reported on Kindergarten (age 4-5y) math and science lesson plans oriented around inquiry based techniques. Specific lessons included exploring the relationship between numbers and quantities , identifying the qualities of shapes, and the concepts of "more than" and "less than".

- **Research Component**: Compared the child's ability to identify "less" and "more" with using different tools: fingers, images, and manipulable counting objects. Presented results at the CalTeach research poster session.

SpaceX   Hawthorne, California
Information Technology Intern   *April 2014 - August 2015*

- Imaged, deployed, and maintained desktops and printers at the SpaceX HQ in Hawthorne, CA
- Serviced the employee IT helpdesk for troubleshooting, repairing, and maintaining company devices

Software

`childes-db` (co-maintainer)

   ⚯ `childes-db.stanford.edu`

   An open database storing child language datasets from CHILDES

`childesr` (contributor and co-maintainer)

   ⊙ `langcog/childesr`

   An R package for accessing childes-db, a database of child language corpora from CHILDES

`childespy` (creator and primary maintainer)

   ⊙ `langcog/childespy`

   A python wrapper for the latest version of the `childesr` R package

`Peekbank` (co-creator and co-maintainer)

   ⚯ `peekbank.stanford.edu`

   A database storing eye-tracking datasets on children's word recognition

`peekbankr` (co-creator and contributor)

   ⊙ `langcog/peekbankr`

   An R package for accessing Peekbank, a database of looking while listening data

Last Updated: November 5, 2021