

Mika Braginsky

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EDUCATION

Massachusetts Institute of Technology

Ph.D., Brain and Cognitive Sciences (2022)

Advisor: Edward Gibson

Committee: Edward Gibson, Michael Frank, Timothy O'Donnell, Joshua Tenenbaum, Laura Schulz

Thesis: *Language learning at scale: Data-driven and model-motivated analyses of lexical and morphological development*

Massachusetts Institute of Technology

B.S., Computer Science and Engineering & Brain and Cognitive Sciences (2014)

RESEARCH EXPERIENCE

Graduate Student Researcher

Sep 2016 – January 2022

TedLab, MIT (PI: Edward Gibson)

Computational Psycholinguistics Lab, MIT (PI: Roger Levy)

Research Assistant

Sep 2014 – June 2016

Language and Cognition Lab, Stanford University

PI: Michael Frank

Undergraduate Researcher

Sep 2013 – Aug 2014

Computational Cognitive Science Group, MIT

PI: Joshua Tenenbaum

Research and Development Intern

June 2013 – Aug 2013

Research and Development Team, Basis Technology

AWARDS AND FELLOWSHIPS

- Walle Nauta Award for Continuing Dedication to Teaching by a Graduate Student (April 2020 & June 2021)
- Angus MacDonald Award for Excellence in Undergraduate Teaching (February 2019)
- Henry E. Singleton Fellowship, MIT (2017-2018)
- Society for Language Development Student Award (October 2016)
- National Science Foundation Graduate Research Fellowship (2016-2021)

JOURNAL ARTICLES

- Zettersten, M., Yurovsky, D., Xu, T., Uner, S., Tsui, A., ... **Braginsky, M.**, ... Frank, M. C. (under review). Peekbank: An open, large-scale repository for developmental eye-tracking data of children's word recognition.
- DeMayo, B., Kellier, D., **Braginsky, M.**, Bergmann, C., Hendriks, C., Rowland, C. F., Frank, M. C., & Marchman, V. (2021). Web-CDI: A system for online administration of the MacArthur-Bates Communicative Development Inventories. *Language Development Research*.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (2019). Consistency and variability in children's word learning across languages. *OpenMind: Discoveries in Cognitive Science*.
- Sanchez, A., Meylan, S. C., **Braginsky, M.**, MacDonald, K. E., Yurovsky, D., and Frank, M. C. (2019). *chilides-db*: a flexible and reproducible interface to the Child Language Data Exchange System. *Behavioral Research Methods*.

- Bergmann, C., Tsuji, S., Piccinini, P., Lewis, M., **Braginsky, M.**, Frank, M. C., and Cristia, A. (2018). Promoting replicability in developmental research through meta-analyses: Insights from language acquisition research. *Child Development*.
- Frank, M. C., **Braginsky, M.**, Yurovsky, D., and Marchman, V. A. (2016). Wordbank: An open repository for developmental vocabulary data. *Journal of Child Language*.

BOOKS

- Frank, M. C., **Braginsky, M.**, Marchman, V. A., and Yurovsky, D. (2021). *Variability and Consistency in Early Language Learning: The Wordbank Project*. MIT Press.

BOOK CHAPTERS

- Mahowald, K., Dautriche, I., **Braginsky, M.**, and Gibson, E. (2022). Efficient communication and the organization of the lexicon. In *Oxford Handbook of the Mental Lexicon*. Oxford University Press.

PEER-REVIEWED CONFERENCE PROCEEDINGS

- Zettersten, M., Bergey, C., Bhatt, N., Boyce, V., **Braginsky, M.**, Carstensen, A., ... & 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*.
- Tenenbaum, A., **Braginsky, M.**, and Levy, R. (2020). Integrating semantics into developmental models of morphology learning. In *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society*.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (2016). From *uh-oh* to *tomorrow*: Predicting age of acquisition for early words across languages. In *Proceedings of the 38th Annual Meeting of the Cognitive Science Society*.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (2015). Developmental changes in the relationship between grammar and the lexicon. In *Proceedings of the 37th Annual Meeting of the Cognitive Science Society*.

CONFERENCE PRESENTATIONS

- Zettersten, M., Saleh, A, Bhatt, N., Yurovsky, D., Xu, T. L., ..., **Braginsky, M.**, ..., 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 to be presented by Martin Zettersten at the 46th Annual Boston University Conference on Language Development.
- Watt, M., **Braginsky, M.**, and O’Donnell, T. (July 2021). Processing differences among irregular inflection classes. Poster presented by Maya Watt at the 43rd Annual Meeting of the Cognitive Science Society.
- Zettersten, M., Bergey, C., Bhatt, N., Boyce, V., **Braginsky, M.**, Carstensen, A., ... & 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.
- **Braginsky, M.**, Marchman, V. A., and Frank, M. C. (July 2020). Characterizing the relationship between lexical and morphological development. Poster presented at the 42nd Annual Meeting of the Cognitive Science Society.
- Tenenbaum, A., **Braginsky, M.**, and Levy, R. (July 2020). Integrating semantics into developmental models of morphology learning. Poster presented by Abigail Tenenbaum at the 42nd Annual Meeting of the Cognitive Science Society.

- **Braginsky, M.**, Marchman, V. A., and Frank, M. C. (July 2020). Characterizing the relationship between lexical and morphological development. Talk presented at the XXII Biennial International Congress of Infant Studies.
- Meylan, S, **Braginsky, M.**, deMayo, B., Sanchez, A., Schonberg, C., Srinivasan, M., Vlach, H., Lupyan, G., Griffiths, T., Frank, M. C. (November 2019). Wordful: Tracking early productive vocabulary growth with smartphones. Talk presented by Stephan Meylan at the 44th Annual Boston University Conference on Language Development.
- **Braginsky, M.**, Marchman, V. A., and Frank, M. C. (March 2019). Demographic effects on the composition of children’s early vocabulary. Talk presented at the 2019 Society for Research in Child Development Biennial Meeting.
- **Braginsky, M.**, Levy, R., and O’Donnell, T. (July 2018). Evaluating models of productivity in language acquisition. Poster presented at the 40th Annual Meeting of the Cognitive Science Society.
- Tsuji, S., Bergmann, C., Lewis, M., **Braginsky, M.**, Piccinini, P., Frank, M. C., and Cristia, A. (August 2017). MetaLab: A repository for meta-analyses on language development, and more. Talk presented by Sho Tsuji at Interspeech 2017.
- **Braginsky, M.**, Yurovsky, D., Meylan, S., Marchman, V. A., and Frank, M. C. (April 2017). Building quantitative theories of early language using large-scale parent report data. Talk presented at the 2017 Society for Research in Child Development Biennial Meeting.
- **Braginsky, M.**, Yurovsky, D., Meylan, S., Marchman, V. A., and Frank, M. C. (November 2016). Gender differences in lexical input and acquisition. Talk presented at the 41th Annual Boston University Conference on Language Development.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (August 2016). From *uh-oh* to *tomorrow*: Predicting age of acquisition for early words across languages. Talk presented at the 38th Annual Meeting of the Cognitive Science Society.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (May 2016). Predicting age of acquisition for early words across languages. Talk presented at the XX Biennial International Congress of Infant Studies.
- **Braginsky, M.** (January 2016). Using Shiny for exploration of Wordbank. RStudio Shiny Developer Conference.
- Tsuji, S., Bergmann, C., Cristia, A., Lewis, M., **Braginsky, M.**, and Frank, M. C. (January 2016). MetaLab: Power analysis and experimental planning in developmental research made easy. Poster presented by Sho Tsuji at the 2015 Budapest CEU Conference on Cognitive Development.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (December 2015). Predicting age of acquisition for early words across languages. Talk presented at the Studying Language Learning Workshop.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (November 2015). Developmental trajectories of vocabulary composition across languages. Poster presented at the 40th Annual Boston University Conference on Language Development.
- Lewis, M., **Braginsky, M.**, Bergmann, C., Tsuji, S., Cristia, A., and Frank, M. C. (November 2015). MetaLab: A tool for power analysis and experimental planning in developmental research. Talk presented by Molly Lewis at the 40th Annual Boston University Conference on Language Development.
- **Braginsky, M.**, Yurovsky, D., Marchman, V. A., and Frank, M. C. (July 2015). Developmental changes in the relationship between grammar and the lexicon. Poster presented at the 37th Annual Meeting of the Cognitive Science Society.
- Frank, M. C., Yurovsky, D., Schneider, R., **Braginsky, M.**, and Marchman, V. A. (March 2015). Studying children’s vocabulary development at scale. Talk presented by Michael Frank at the 2015 Society for Research in Child Development Biennial Meeting.

- Frank, M. C., Yurovsky, D., Krishna, R., **Braginsky, M.**, and Marchman, V. A. (November 2014). Wordbank: An open repository for developmental vocabulary data. Poster presented by Michael Frank at the 39th Annual Boston University Conference on Language Development. Boston, MA.

DEPARTMENTAL PRESENTATIONS

- **Braginsky, M.**, Marchman, V. A., and Frank, M. C. (November 2019). Characterizing the relationship between lexical and morphological development. Emerging Scholars of Psychological Science, Princeton University.
- **Braginsky, M.** (October 2018). Understanding productivity inferences in children and models. CogLunch, Department of Brain and Cognitive Sciences, MIT.
- **Braginsky, M.**, Levy, R., and O’Donnell, T. (October 2017). Bayesian models of productivity in acquisition. CogLunch, Department of Brain and Cognitive Sciences, MIT.

TEACHING

Teaching Assistant	Spring 2021, Spring 2020, Spring 2019, Spring 2018
Laboratory in Psycholinguistics, MIT Instructor: Edward Gibson	
Workshop Instructor	July 2019
Large-scale data tools in child language acquisition LSA Linguistic Institute 2019	
Advanced Learning Assistant	Fall 2011
Introduction to Electrical Engineering and Computer Science I	

SERVICE

- Ad-hoc reviewer for Journal of Child Language, Language Development Research, Cognitive Science Society
- Co-organizer of weekly CogLunch talk series in MIT BCS department Sep 2017 – May 2018

SOFTWARE

- Wordbank** (co-creator and former primary maintainer)
wordbank.stanford.edu
A database of vocabulary development data from the CDI and interactive tools for its access
- wordbankr** (co-creator and primary maintainer)
github.com/langcog/wordbankr
An R package for accessing Wordbank
- chilidesr** (co-creator and primary maintainer)
github.com/langcog/chilidesr
An R package for accessing childe-db, a database of child language corpora from CHILDES
- rwebppl** (co-creator and maintainer)
github.com/mhtess/rwebppl
An R interface to the WebPPL probabilistic programming language
- MetaLab** (co-creator and former primary maintainer)
metalab.stanford.edu
Interactive tools for community-augmented meta-analysis in cognitive development research

ggpirate (creator and primary maintainer)

github.com/mikabr/ggpirate

An R package for making informative plots of data with categorical independent variables

tidyboot (co-creator and maintainer)

github.com/langcog/tidyboot

An R package for doing tidyverse-compatible bootstrapping

jglmm (creator and maintainer)

github.com/mikabr/jglmm

An R package for fitting generalized linear fixed effects models in Julia

Last updated: 2022-01-30