

# Mika Braginsky

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## EDUCATION

**PhD**, Cognitive Science, Massachusetts Institute of Technology 2022  
Thesis: *Language learning at scale: Data-driven and model-motivated analyses of lexical and morphological development*

**BS**, Computer Science and Engineering & Brain and Cognitive Sciences, Massachusetts Institute of Technology 2014

## EMPLOYMENT

**Postdoctoral Scholar**, Quantitative Sciences Unit, Stanford University Mar 2022 – Apr 2023  
Developed tools for reducing statistical bias in meta analysis.  
Conducted studies on interventions for reducing meat consumption.

**Graduate Student Researcher**, Department of Brain and Cognitive Sciences, MIT Sep 2016 – Jan 2022  
Conducted large scale data analyses of children's lexical and morphological development.

**Research Assistant**, Department of Psychology, Stanford University Sep 2014 – June 2016  
Developed tools for language acquisition research and conducted analyses of vocabulary development.

**Research and Development Intern**, Basis Technology Jun 2013 – Aug 2013  
Improved a statistical model for named-entity resolution and entity linking (using Java and Python).

## PROJECTS

**Metabias** (co-creator, primary maintainer) [metabias.io](https://metabias.io)  
R packages for accounting for statistical biases in meta-analysis (PublicationBias, phacking, multimetabias).  
Interactive apps for performing these analyses (using R, Shiny, Heroku, Docker, shinyapps.io).

**Experimentology** (co-author) [experimentology.io](https://experimentology.io)  
Textbook (in progress) on experimental methods and open science (using R, bookdown, CSS).  
Interactive tutorials on data manipulation and visualization (using R, learnr).

**Wordbank** (co-creator, former primary maintainer, co-author) [wordbank.stanford.edu](https://wordbank.stanford.edu)  
Open repository of language development data (using Python, Django, MySQL, AWS).  
Interactive tools for data visualization (using Shiny).  
R package for data access and manipulation (wordbankr).  
Book of data-driven analyses of children's language learning (MIT Press, 2021). [wordbank-book.stanford.edu](https://wordbank-book.stanford.edu)

**Wordful** (co-creator and former maintainer) [wordfulapp.com](https://wordfulapp.com)  
Smartphone app for tracking early vocabulary growth (using JavaScript, Angular, Python).

*Additional (co-)authored R packages:*

jglmm	Fitting and analyzing generalized linear mixed effects models in Julia.	<a href="https://github.com/mikabr/jglmm">github.com/mikabr/jglmm</a>
ggpirate	Making more informative alternatives to bar plots.	<a href="https://github.com/mikabr/ggpirate">github.com/mikabr/ggpirate</a>
rwebppl	Interface to the WebPPL probabilistic programming language.	<a href="https://github.com/mhtess/rwebppl">github.com/mhtess/rwebppl</a>
childesr	Accessing childes-db, a database of child language corpora.	<a href="https://github.com/langcog/childesr">github.com/langcog/childesr</a>
peekbankr	Accessing peekbank, a database of developmental eye-tracking datasets.	<a href="https://github.com/langcog/peekbankr">github.com/langcog/peekbankr</a>
truncnormbayes	Estimating moments for a truncated normal distribution using Stan.	<a href="https://github.com/leonkt/truncnormbayes">github.com/leonkt/truncnormbayes</a>

## TEACHING

**Teaching Assistant, Laboratory in Psycholinguistics, MIT** (2018–2021) [web.mit.edu/psycholinglab/public](https://web.mit.edu/psycholinglab/public)  
Developed and taught weekly hands-on labs on data analysis and visualization.  
Received four annual departmental awards for Excellence in Undergraduate Teaching (2019–2022).