Mika Braginsky

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Education

June 2014 **Bachelor of Science in Computer Science and Engineering and in Brain and Cognitive Sciences**, *Massachusetts Institute of Technology*, Cambridge, MA.

Work Experience

Sep 2014 – present **Research Assistant**, *Language and Cognition Lab, Stanford University*, Stanford, CA.

Developed tools for language acquisition research and conducted large-scale data analyses about vocabulary development. Primary developer for:

- Wordbank | `wordbank.stanford.edu`
  An online repository of language development data (uses Django, MySQL and R Shiny).
- wordbankr | `cran.r-project.org/web/packages/wordbankr`
  An R package for accessing Wordbank data.
- MetaLab | `metalab.stanford.edu`
  Tools for power analysis and experimental planning in language acquisition (uses R Shiny).
- Wordful
  A mobile app for collecting of word learning data (uses JavaScript, AngularJS, Ionic).

Sep 2013 – Aug 2014 **Undergraduate Researcher**, *MIT*, Cambridge, MA.

Designed and implemented a model of early cross-situational word learning (using Python).

June 2013 – Aug 2013 **Research and Development Intern**, *Basis Technology*, Cambridge, MA.

Improved a statistical model for named-entity resolution and entity linking through error analysis and software development (using Java, Python).

June 2012 – Aug 2012 **Undergraduate Researcher**, *MIT Lincoln Laboratory*, Lexington, MA.

Developed a behavioral experiment for investigating the connection between language and motor control (using Python).

Other Experience

Projects

- Multi-lingual translation
  `mikabr.shinyapps.io/linger`
- Visualization of names' gender
  `mikabr.shinyapps.io/names`
- Multi-function nonparametric bootstrap
  `github.com/langcog/langcog`
- Chatbot puzzle
  `github.com/mikabr/chatbot-puzzle`
- SAT analogy problem solver
  `github.com/mikabr/sat-solver`

Coursework

`MAS.S60` Practical Natural Language Processing
`6.863` Natural Language and Knowledge Representation
`6.804` Computational Cognitive Science
`6.803` The Human Intelligence Enterprise
`6.034` Artificial Intelligence
`6.046` Design and Analysis of Algorithms
`6.033` Computer Systems Engineering
`6.S080` Introduction to Inference
`18.440` Probability and Random Variables
`18.06` Linear Algebra

Skills

Programming: Proficient in R (tidyr, dplyr, ggplot2, shiny, knitr), Python (Django, nltk, numpy), JavaScript (Angular, Ionic); familiar with SQL, Java, MATLAB, Scheme.

Tools: UNIX, Git, Subversion, EC2, Apache, HTML, CSS, LaTeX.

Languages: Native English and Russian, conversational Hebrew.