

# **Curriculum Vitae**

## **Elika Bergelson**

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### **Education & Research Positions Held**

- 2016-**      **Assistant Professor, Duke University**  
                 Psychology and Neuroscience Department
- 2014-16**   **Research Assistant Professor, University of Rochester,**  
                 Center for Language Sciences,  
                 Department of Brain & Cognitive Sciences
- 2013-14**   **Postdoctoral Researcher, University of Rochester,** Center for Language Sciences,  
                 Department of Brain & Cognitive Sciences  
                 Sponsor: Dr. Richard Aslin
- 2008-13**   **Ph.D, University of Pennsylvania,** Psychology Department  
                 **Dissertation: “Word Learning in 6-16 Month Old Infants”**  
                 Committee: Drs. Dan Swingley (Advisor), John Trueswell, and Delphine Dahan
- 2008-09**   **M.A., University of Pennsylvania,** Psychology Department  
                 Committee: Drs. Dan Swingley (Advisor), Lila Gleitman, Robert Seyfarth
- 2007-08**   **Baggett Research Fellow, University of Maryland,** Linguistics Department  
                 Advisors: Drs. Jeff Lidz, William Idsardi, David Poeppel
- 2003-07**   **B.A., *Summa Cum Laude*, New York University,** Majors: Language & Mind, Music  
                 Honors Thesis: “The Roles of Language and Music in Infant Pattern Abstraction”  
                 Advisors: Drs. Gary Marcus, Scott Johnson

### **Research Interests**

- Development of the link between word-form and meaning in infancy
- Acquisition of early vocabulary items and semantic categories
- Learning mechanisms and representations in first language acquisition
- Parallels in representation and processing of language and music
- Effects of word comprehension and production on visual search

### **Research Grants**

- 2017-2020**   Digging into Data Challenge (NEH; Pending; \$200,000 USD)  
                 *Analyzing Child Language Experiences Around the World*  
                 U.S. PI (8 Co-PIs in 6 countries, ~\$1,000,000 total).
- 2014-2019**   NIH Early Independence Award (\$1,250,000)  
                 PI. *Mechanisms of Word Learning in Infancy*
- 2014**        NIH National Research Service Award (8<sup>th</sup> Percentile; declined for NIH-EIA)

- 2013-2014** NIH Postdoctoral Fellowship, Center for Language Sciences (\$40,000)  
**2010-2013** NSF Graduate Research Fellowship (\$90,000)  
**2008-2010** NSF IGERT Traineeship in Language and Comm. Science (\$60,000)  
**2005-2007** Dean's Undergraduate Research Fund at New York University (\$1,500)

### **Honors and Awards**

- 2015** Rising Star, Association for Psychological Science  
**2015** Forbes Magazine 30 under 30 in Science  
**2014** Best Dissertation, International Society for Infant Studies, \$1,500  
**2013** U. Pennsylvania's President Gutmann Leadership Award, \$1,000  
**2012** 60 Second Lecture Audience Choice Award, Arts & Sciences, U. Pennsylvania  
**2012** Women in Cognitive Science Award, \$1,000  
**2012** Society for Language Development Student Award  
**2010,12** Travel Award, Boston University Conference on Language Development  
**2010,12,13** Travel Award, Psychology Department, University of Pennsylvania  
**2010** Travel Award, International Conference on Music Cognition and Perception  
**2010,12,13** Travel Award, School of Arts and Sciences, University of Pennsylvania  
**2008** Travel Award, Graduate & Professional Student Association, U. of Pennsylvania  
**2007** Dept. Research Award, from NYU College of Arts and Science Psychology Dept.  
**2006** Phi Beta Kappa Inductee  
**2005** Gustave Reese Prize in Music, from NYU College of Arts & Science Music Dept.  
**2003-07** Presidential Honors Scholar (2003-2007)

### **Published Journal Articles**

- Bergelson, E., & Aslin, R.** (*provisionally accepted*). Semantic Specificity in One-Year-Olds' Word Comprehension. *Language Learning and Development*.
- Frank, M., **Bergelson, E.**, Bergmann, C., Cristia, A., Floccia, C., Gervain, J., Hamlin, J., Hannon, E., Kline, M., Levelt, C., Lew-Williams, C., Nazzi, T., Panneton, R., Rabagliati, H., Soderstrom, M., Sullivan, J., Waxman, S., Yurovsky, D. (*in press*). A collaborative approach to infant research: Promoting reproducibility, best practices, and theory building. *Infancy*.
- VanDam, M., Warlaumont, A., **Bergelson, E.**, Cristia, A., Soderstrom, M., De Palma, P., & MacWhinney, B. (2016). HomeBank, an online repository of daylong child-centered audio recordings. *Seminars in Speech and Language*, 37, 128-142.
- Bergelson, E., & Swingle, D.** (2015). Early Word Comprehension in Infants: Replication and Extension. *Language Learning and Development*, 11, 369-380.
- Bergelson, E., Shvartsman, M., & Idsardi, W.** (2013). Differences in Mismatch Responses to Vowels and Musical Intervals: MEG Evidence. *PloS One*. 8, e76758.
- Bergelson, E., & Swingle, D.** (2013). Young Toddlers' Word Comprehension is Flexible and Efficient. *PloS One*. 8, e73359.
- Bergelson, E., & Swingle, D.** (2013). The Acquisition of Abstract Words by Young Infants. *Cognition*. 127, 391-397.

**Bergelson, E., & Swingley, D. (2012).** At 6 to 9 months, human infants know the meanings of many common nouns. *Proceedings of the National Academy of Sciences of the USA* 109, 3253-3258.

**Bergelson, E., & Idsardi, W. (2009).** A Neurophysiological Investigation into the Foundations of Tonal Harmony. *Neuroreport*. 20, 239-244.

### **Published Conference Proceedings and Commentaries**

Metze, F., Riebling, E., Warlaumont, A., **Bergelson, E.**, (2016). Virtual Machines and Containers as a Platform for Experimentation. *Proc. INTERSPEECH*.

**Bergelson** (2016). Workshop on Corpus Collection, (Semi)-Automatic Analysis, and Modeling of Large-Scale Naturalistic Language Acquisition Data. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.

**Bergelson, E., & Swingley, D. (2013).** Social and Environmental Contributors to Infant Word Learning. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*, 187-192.

**Bergelson, E., & Idsardi, W. (2009).** “Structural Biases in Phonology: Infant and Adult Evidence from Artificial Language Learning” *BUCLD 33: Proceedings of the 33<sup>rd</sup> Annual Boston University Conference on Language Development*, 85-96.

Poepfel, D., & **Bergelson, E.** (2008). "How music speaks to us." *Nature*, 452, 695-696.  
(book review of Ani Patel's Music, Language, and the Brain)

### **Manuscripts In Preparation, Submitted, and Under Review**

**Bergelson, E., & Swingley, D. (under review).** Young Infants' Word Comprehension: New Talker versus Wrong Phoneme. *Child Development*.

**Bergelson, E., & Aslin, D. (under review).** Early (Noun) Relations: Cross-Word and Home-Lab Links in 6-month-olds.

Amatuni, A., & **Bergelson, E. (under review).** Semantic Networks Generated from Early Linguistic Input. *Proc. of the 39th Annual Conference of the Cognitive Science Society*.

Laing, C., & **Bergelson, E. (under review).** More Siblings Means Lower Input Quality in Early Language Development. *Proc. of the 39th Annual Conference of the Cognitive Science Society*.

Casillas, M., **Bergelson, E.**, Sloetjes, H., Soderstrom, M., DARCLE group, Cristia, A. (under review). A New Workflow for Semi-automatized Annotations: Tests with Long-Form Naturalistic Recordings of Children's Language Environments. *Proc. INTERSPEECH*.

Casillas, M., Amatuni, A., Seidl, A., Soderstrom, M., Warlaumont, A., **Bergelson, E.** (under review). What do Babies hear? Analyses of Child- and Adult-Directed Speech *Proc. INTERSPEECH*.

Schuller, B., Steidl, S., Batliner, A., **Bergelson, E.**, Krajewski, J., Janott, C., Amatuni, A., Casillas, M., Seidl, A., Soderstrom, M., Warluamont, A., Hidalgo, G., Schnieder, S., Heiser, C., Hohenhorst, W., Herzog, M., Schmitt, M., Qian, K., Zhang, Y., Trigeorgis, G., Tzirakis, T., Zafeiriou, S. (under review). The INTERSPEECH 2017 Computational

Paralinguistics Challenge: Addressee, Cold & Snoring. *Proc. INTERSPEECH*.

**Bergelson, E., & Dahan, D.** (*in prep*). Preferred Labels for Objects Influence but Do Not Stifle Lexical Competition in the Visual-World Paradigm.

### **Invited Talks and Colloquia**

Bergelson, E., (Dec. 2016). What's in a (Baby's) Word?  
ECOM Workshop, University of Connecticut

Bergelson, E., (Nov. 2016). Predicting Word Learning from Infants' Home Environment.  
Psychology & Neuroscience Cognitive Area Colloquium, UNC-Chapel Hill

Bergelson, E., (Oct. 2016). Predicting Word Learning from Infants' Home Environment.  
RuCCS Colloquium, Rutgers University

Bergelson, E., (Sep. 2016). Predicting Word Learning from Infants' Home Environment.  
Center for Cognitive Neuroscience Colloquium, Duke University

Bergelson, E., (Feb. 2016). Word Learning in Infants: Linking In-lab Measures with Home Environment. Neurology Grand Rounds, University of Rochester.

Bergelson, E., (Dec, 2015). Environmental variability and its relation to early noun Comprehension. Workshop on Extension and Intensive Recordings of Children's Language Environments, Ecole Normale Supérieure.

Bergelson, E., (April, 2015). Word Learning in Infants. Developmental Brownbag, University of Chicago.

Bergelson, E., (March, 2015). Word Learning in Infants. Psychology & Neuroscience, Duke University.

Bergelson, E., (February, 2015). Word Learning in Infants. Cognition & Perception Colloquium, New York University.

Bergelson, E., (June, 2014). Word Learning in Infants.  
Laboratory for Language Development, RIKEN Brain Science Institute, Tokyo.

Bergelson, E., (January, 2014). Word Learning in Infants.  
Psychology Department, University of California, San Diego.

Bergelson, E., (November, 2013). Word Learning in 6-16 Month Old Infants.  
Center for Language Science Colloquia Series, University of Rochester.

Bergelson, E., (November, 2013). Music and Language: Processing and Acquisition.  
Eastman/Rochester/Cornell/Buffalo Music Cognition Symposium.

### **Conference Talks**

Dailey, S., & **Bergelson, E.** Semantic relatedness effects in early word comprehension.  
*Society for Research in Child Development*. Austin, Mar 2017.

Koorathota, S., Morton, S., Amatuni, A., & **Bergelson, E.** 6- and 7-month-olds' Noun Input: Human and Automated Corpus Analysis, *International Congress on Infant Studies*, New Orleans, May 2016.

**Bergelson, E., & Swingle, D.** The Effects of Maternal Education on Reports of Infants' Early Vocabulary. *Workshop on Infant Language Development*. Stockholm, Jun

2015.

- Bergelson, E., & Aslin, R.** Narrowing Meaning Specificity from 12-20 Months. *Society for Research in Child Development*. Philadelphia, Mar 2015.
- Bergelson, E., & Swingley, D.** Non-Linearities in Word Comprehension Trajectories. *Society for Research in Child Development*. Philadelphia, Mar 2015.
- Bergelson, E., & Aslin, R.** Meaning Specificity in One-Year-Olds' Word Comprehension. *Boston University Conference for Language Development*. Boston University. Boston, Nov 2014. (<20% acceptance rate)
- Bergelson, E., & Swingley, D.** Early Word Form Generalizations in the Context of Meaning. *International Conference for Infant Studies Biennial Meeting, Berlin, Jul 2014*
- Bergelson, E., & Swingley, D.** Social and Environmental Contributors to Infant Word Learning. *35<sup>th</sup> Annual meeting of the Cognitive Science Society, Berlin, Aug 2013*.
- Bergelson, E., & Swingley, D.** Infant Word Comprehension: Robust to Speaker Differences but Sensitive to Single Phoneme Changes *Workshop on Infant Language Development*, San Sebastian, Jun 2013. (<20% acceptance rate)
- Bergelson, E., & Swingley, D.** Talker-independence in word comprehension before 12 months. *Boston University Conference for Language Development*. Boston University. Boston, Nov 2012. (<20% acceptance rate)
- Bergelson, E., Swingley, D.** 6-11-Month-Olds' Comprehension of Concrete and Abstract Words. *Budapest CEU Conference on Cognitive Development*, Budapest, Jan 2012.
- Gorman, K., Faber, D., **Bergelson, E.**, and Yang, C. 2012. Word vs. rule frequencies in irregular acquisition. *Linguistic Society of America Annual Meeting*, Portland, Jan 2012.
- Bergelson, E., Swingley, D.** What 6-10-Month-Olds Know about Word Meaning. *Society for Research in Child Development Biennial Meeting*, Montreal, Apr 2011.
- Bergelson, E., Swingley, D.** Mother's education predicts spoken word recognition in 6-16-mo.-old Infants. *Boston University Conference for Language Development*. Boston University. Boston, Nov 2010. (<20% acceptance rate)
- Bergelson, E., Shvartsman, M., Idsardi, W.** Differences in Brain Responses to Vowels and Musical Intervals. *International Conference for Music Perception and Cognition*, Seattle, Aug 2010.
- Bergelson, E., Merickel, J., Idsardi, W., Lidz, J.** Structural Biases in Phonology: Evidence from Artificial Language Learning. *Linguistic Society of America Annual Meeting*, Baltimore. Jan 2010.
- Bergelson, E., Idsardi, W.** Structural Biases in Phonology: Infant and Adult Evidence from Artificial Grammar Learning. *Boston University Conference for Language Development*. Boston University. Boston, Nov 2008. (<20% acceptance rate)
- Bergelson, E.** Infants' ability to learn patterns from language and music. *Undergraduate Research Conference*. New York University. April 2007.

## **Conference Posters**

- Amatuni, A., Dailey, S. & **Bergelson, E.** “Early Lexical Development: The Roles of Semantic Similarity and Home Environment” Poster presented at the Duke Research Computing Symposium, Durham, Jan 2016.
- Dailey, S., Amatuni, A., & **Bergelson, E.** “Effects of Home Environment & Semantic Structure on Early Lexical Development.” Poster presented at the NIH High Risk, High-Reward Research Symposium, Bethesda, Dec 2016.
- Bergelson, E.,** and Eagle, T. Links between talking, walking, and pointing: analysis of parental report & observation, *Boston University Conference for Language Development*. Boston, Nov 2016. (acceptance rate <20%)
- Bergelson, E.,** and Swingley, D. Differing Effects of Socioeconomic Status on Infants' Reported Receptive and Productive Vocabulary, *Cognitive Development Society Meeting*, Columbus, Oct 2015.
- Bergelson, E.,** and Swingley, D. Development in 11—15-month-olds' Noun and Verb Learning Following Extended At-Home Teaching, *Cognitive Development Society Meeting*, Columbus, Oct 2015.
- Bergelson, E.,** and Dahan, D. Preferred Labels for Objects Influence but Do Not Stifle Lexical Competition in the Visual-World Paradigm, *Psychonomics Society Annual Meeting*. Minneapolis, Nov 2012.
- Bergelson, E.,** and Swingley, D. Word Recognition at 20 Months is Flexible and Efficient. *Internat'l Conference for Infant Studies Biennial Meeting*. Minneapolis, June 2012.
- Gorman, K., Faber, D., **Bergelson, E.,** and Yang, C. Word vs. rule frequencies in irregular acquisition. *Boston University Conference for Language Development*. Boston, Nov 2011.
- Bergelson, E.,** Swingley, D. 6-9-Month-Olds Match Spoken Words to Visual Referents. *Internat'l Conference for Infant Studies Biennial Meeting*. Baltimore, Mar 2010.
- Barriere, I. Frenkel, S. Halberstam, F. Smedesdran, S. **Bergelson, E.** & Chen, J., Quantitative effects on Yiddish/English bilingual development. *Boston University Conference for Language Development*. Boston, Nov 2008. (acceptance rate <20%)
- Shvartzman, M., **Bergelson, E.,** Idsardi, W. From Tones To Vowels: A Neurophysiological Investigation of Sine and Formant Dyads. *Neurobiology of Language Conference*. Chicago, Oct 2009.
- Bergelson, E.,** Idsardi, W. An MEG MMF study into the foundations of harmony. *Society for Neuroscience*. Washington D.C. Nov 2008.
- Bergelson, E.,** de Souza, K. and Idsardi, W., A neurophysiological study into the foundations of harmony. *Music and Language*. Tufts University, Boston, July 2008.

## **Teaching Experience**

- Graduate course on Language Development (2017)
- Workshop for Psych & Neuroscience Community on Data Tidying and Visualization in R (with tidyverse and ggplot2).(2017)
- Organizer for Grad/Postdoc Textbook Reading Group “Introduction to Statistical Learning” (2014)
- Teaching Assistant for Psychology 101 and Human Memory (2010-2011)

- Guest Lecturer for undergraduate and graduate level Introduction to Cognitive Science, Psychology, Linguistics, Language Development, and Psycholinguistics (2008-2015)
- Teaching Hebrew/Jewish Studies (2003-2012) and Music (2003-2007); grades K-12
- Teaching and Tutoring for Kaplan (2005-2007)

### **Advising/Supervision**

- Catherine Laing: Postdoc (2016-)
- Charlotte Moore: Graduate Student (2016-)
- Emmaline Drew: Graduate Practicum Student (Spring 2017)
- Hannah Ballock: Independent Study Advisee (Spring 2017)
- Haley Weaver: Independent Study Advisee at U. Rochester (2016-17)
- Cristopher Alvarado: High School Research Assistant (2016-2017)
- Afua Ansah, Hannah Ballock, Micaela Brewington: U.G. RAs (Fall 2016)
- Tessa Eagle: Honors Thesis Advisee at U. Rochester (2015-16)
- Valerie Langlois, Haley Weaver, Alexis Rickwood; U.G. Summer Research Fellowship Awardees (2015)
- Andrei Amatuni, Bella Clemente, Jayde Homer, Valerie Langlois, Dustyn Levenson, Sarah Markowitz, Ashwini Manjunatha, Leah Nason, Adina Poras, Alex Rickwood, Haley Weaver; U.G. RAs (2014-2016)
- Jayde Homer, Ashwini Manjunatha, Sarah Markowitz, Alex Rickwood, Sophie Werk: U.G. Independent Study Student (2015-2016)
- John Collins, Summer Research Student, Center for Visual Sciences (2014)
- Elizabeth Yellin, Undergraduate Research Project (2013)

### **Ad-Hoc Reviewing**

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|---|---|
| • Child Development                           | • Language Acquisition                      |
| • Cognition                                   | • Language Learning and Development         |
| • Developmental Science                       | • PNAS                                      |
| • Frontiers in Psychology                     | • Society for Research in Child Development |
| • Journal of Experimental Child Psychology    | • Behavioral Research Methods               |
| • Journal of Experimental Psychology: General | • Psych Science                             |
| • Journal of Memory and Language              |   |

### **Service**

- President-Elect, DARCLE (Daylong Audio Recordings of Children's Linguistic Environments); [darcle.org](http://darcle.org)
- Editorial Board member for Developmental Psychology

### **Press Coverage**

- January 2015: Forbes Magazine 30 under 30 in Science coverage
- Fall 2014: Coverage of NIH EIA award (print & social media); details on lab website:

<http://www.bcs.rochester.edu/seedlings/>

- February & March 2012: Coverage of Bergelson & Swingley, 2012, PNAS
- Radio and TV: BBC News Hour, WHYY Newsworks, France 2 news program '20h', WROC, Time Warner Cable News, WXXI
- Newspaper and Popular Press: Science News Daily, Telegraph, Daily Mail (UK), Science Daily, La Repubblica (Italy), Corrier della Sera (Italy), Trouw (Netherlands), Democrat and Chronicle (US)