**Federica Bulgarelli**

002 Sociology-Psychology

University Park, PA 16802

(608) 345-5069

fb82@duke.edu

www.federicabulgarelli.weebly.com

**EMPLOYMENT**



**Postdoctoral Associate** 2018 – present

Bergelson Lab

Duke University

P.I. Elika Bergelson. Ph.D.

**EDUCATION**



**Ph.D. in Cognitive Psychology** 2013-2018

*Talker Variability as a Desirable Difficulty for Language Learning*

Dual Title in Language Sciences

Committee: Dr. Daniel Weiss, Dr. Judith Kroll, Dr. Janet van Hell, Dr. Matt Carlson, Dr. Koraly Perez-Edgar

Pennsylvania State University

**Master of Science in Cognitive Psychology**  2015

*Tracking Multiple Inputs: An Investigation of the Primacy Effect in Monolinguals and Bilinguals*

Committee: Dr. Daniel Weiss, Dr. Judith Kroll, Dr. Giuli Dussias

Pennsylvania State University

**Bachelor of Science in Human Development**  2013

**Bachelor of Arts in Linguistics**

University of Wisconsin – Madison

Graduated with Honors

**AWARDS**



**Language Learning Dissertation Grant** 2018

Title: Talker variability as a desirable difficulty for language learning

**Graduate Student Travel Grant from PSU Global Programs**  2017

**National Science Foundation Partnerships for International Research and** 2016

**Education Fellowship**

Title: Understanding the bilingual mind and brain

**National Science Foundation Graduate Research Fellowship** 2015-2018

Title: Know when to fold ’em: Overcoming the stationarity bias

**AmeriCorps Education Award**  2012, 2013

**PUBLICATIONS** + denotes joint first authorship



Cristia, A., **Bulgarelli, F**., Bergelson, E. (under review). Systematic review of LENA evaluations.

+Benitez, V., +**Bulgarelli, F.**, Saffran, J., Byers-Heinlein, K., Weiss, D. J. (under review). Statistical Learning of Multiple Structures by 8-month-old Infants.

**Bulgarelli, F.,** Bergelson, E. (accepted). Look who’s talking: A comparison of automated and human-generated speaker tags in naturalistic daylong recordings. *Behavioral Research Methods.*

George, N. R., **Bulgarelli, F.,** Roe, M. D., Weiss, D. J. (2019). Stacking the evidence: Parents’ use of acoustic packaging with preschoolers. *Cognition*

**Bulgarelli, F.,** Bosch, L., Weiss, D. J. (2019). Simultaneous visual statistical learning in monolinguals and bilinguals. *Frontiers in psychology, 10.*

**Bulgarelli, F.,** Weiss, D. J. (2019) The more the merrier? The impact of talker variability on artificial grammar learning in preschoolers and adults. *Proceedings of the 43rd Boston University Conference on Language Development.*

**Bulgarelli, F.,** Lebkuecher, A. L., & Weiss, D. J. (2018). Statistical learning and bilingualism. *Language, speech, and hearing services in schools, 49*(3S), 740-753.

**Bulgarelli, F.**, Benitez, V., Saffran, J., Byers-Heinlein, K., Weiss, D. J. (2017). Statistical Learning of Multiple Structures by 8-month-old Infants. *Proceedings of the 41st Boston University Conference on Language Development.*

Weiss, D. J., **Bulgarelli, F.,** Navarro-Torres, C., & Morales, J., (2017). Translating research to practice in the language sciences. *Translational Issues in Psychological Science, 3(1), 1.*

**Bulgarelli, F.,** & Weiss, D. J. (2016). Anchors Aweigh: The Impact of Overlearning on

Entrenchment Effects in Statistical Learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition.*

Karuza, E., Li, P., Weiss, D.J., **Bulgarelli, F.,** Zinszer, B., Aslin, R.N. (2016) Sampling over Non-uniform Distributions: A Neural Efficiency Account of the Primacy Effect in Statistical Learning. *Journal of Cognitive Neuroscience*.

**WORKS IN PROGRESS**



**Bulgarelli, F.,** Weiss, D. J. (in prep). Desirable differences in statistical learning? How talker variability impacts retention. *Invited submission to Journal of Memory and Language special issue.*

**Bulgarelli, F.,** Weiss, D. J., Dennis, N. A. (in prep). Cross-situational statistical learning in younger and older adults.

Weiss, D. J., Gerfen, C., **Bulgarelli, F**. (in prep). Contextual cues facilitate the acquisition of multiple mappings in statistical word learning.

Weiss, D. J., Zinszer, B., **Bulgarelli, F.,** Poepsel, T. J., Aslin, R. N. (in prep). Stay or switch: The impact of consistency on statistical learning of multiple structures.

**CONFERENCE PRESENTATIONS** \* Indicates undergraduate student



**Bulgarelli, F.,** Weiss, D.J. (2019). *Limited talker variability differentially impacts artificial grammar learning in preschoolers and adults.* Talk presented at the 2019 Society for Research in Child Development Meeting. Baltimore, MD.

**Bulgarelli, F.,** Weiss, D. J. (2018). *The more the merrier? The impact of talker variability on artificial grammar learning in preschoolers and adults.* Talk presented at the 43rd Boston University Conference on Language Development. Boston, MA.

**Bulgarelli, F.,** Weiss, D. J., Dennis, N. A. (2018). *The effect of healthy aging on cross situational statistical word learning.* Poster presented at the 2018 Cognitive Aging Conference. Atlanta, GA.

**Bulgarelli, F.** George, N. R., Roe, M. D., Weiss, D. J. (2017). *Bottom-up cues to event segmentation: The use of audiovisual synchrony in speech to preschoolers.* Talk presented at the 42nd Boston University Conference on Language Development. Boston, MA.

**Bulgarelli, F.,** Bosch, L., Weiss, D. J. (2017) *Simultaneous visual statistical learning in monolinguals and bilinguals.* Poster presented at the 2017 Interdisciplinary Advances in Statistical Learning Conference. Bilbao, Spain.

**Bulgarelli, F.**, George, N. R., Weiss, D. J. (2017). *Stacking Evidence: Parents’ Use of Acoustic Packaging Continues into the Preschool Years.* Talk presented at the 2017 Society for Research in Child Development Meeting. Austin, TX

**Bulgarelli, F.**, Benitez, V., Saffran, J., Byers-Heinlein, K., Weiss, D. J. (2016). *Statistical Learning of Multiple Structures by 8-month-old Infants*. Poster presented at the 41st Boston University Conference on Language Development. Boston, MA.

**Bulgarelli, F.,** Bosch, L., Weiss, D. J. (2016). *Comparing Monolingual and Bilingual Learner’s Performance on a Multi-Level Statistical Learning Task.* Poster presented at the 2016 Meeting of the Psychonomics Society. Boston, MA

George, N. R., **Bulgarelli, F**., \*Theoret, C., Weiss, D. J. (2016). *Dancing with Words: The Acoustic Packaging of Events in Adult-Directed Speech.* Poster presented at the 2016 Meeting of the Psychonomics Society. Boston, MA

Koranda, M. J., **Bulgarelli, F.**, Weiss, D. J., MacDonald, M. C. (2016) *Parallels between Action Priming and Syntactic Priming.* Poster presented at the Ninth International Workshop on Language Production. San Diego, CA.

\*Theoret, C., **Bulgarelli, F.**, George, N. R. & Weiss, D. J. (2016). *What to say about ballet? How the timing of language can be instructive.* Poster presented at the 2016 Undergraduate Exhibition. University Park, PA

**Bulgarelli, F.,** Weiss, D.J. (2015) *Individual Differences in Tracking Multiple Structures: Investigating the Primacy Effect*. Poster presented at the 2015 Learning Sciences/Science of Learning Poster Conference. University Park, PA

Weiss, D.J., **Bulgarelli, F.,** Poepsel, T. (2015) *The one that got away: Statistical learning of multiple inputs.* Talk presented at the 2015 Interdisciplinary Advances in Statistical Learning Conference. San Sebastian, Spain.

**Bulgarelli, F.,** Weiss, D.J. (2015) *Enough is Enough: Anchoring Effects in Statistical Learning.* Poster presented at the 2015 Interdisciplinary Advances in Statistical Learning Conference. San Sebastian, Spain.

**Bulgarelli, F.,** Weiss, D.J. (2015) *Individual Differences in Tracking Multiple Structures: Investigating the Primacy Effect*. Poster presented at the 2015 Society for Research in Child Development. Philadelphia, CA

**Bulgarelli, F.,** Weiss, D.J. (2014) *Tracking Multiple Structures: An Insight into the Primacy Effect.*  Poster presented at the 2014 Psychonomics Annual Meeting. Long Beach, CA.

**Bulgarelli, F.,** Weiss, D. J. (2014) *Multi-Stream Statistical Learning in Monolinguals and Bilinguals.* Talk presented at the 2014 UIC Bilingualism Forum. Chicago, IL.

**Bulgarelli, F.** (2014) *Learning in a Non-Stationary Environment: Investigating the Primacy Effect.* Talk presented at the Center for Language Science Speaker Series. University Park, PA.

**Bulgarelli, F.,** Weiss, D. J. (2014) *Tracking Multiple Structures in Statistical Learning.* Talk presented at the 2014 APA Annual Convention. Washington, D.C.

**Bulgarelli, F.** (2014). *An Investigation of the Time Course of Statistical Learning.* Talk presented at the Cognitive Area Brown Bag Series. University Park, PA.

**Bulgarelli, F.,** Weiss, D. J. (2014) *Tracking multiple inputs: Investigating the time course of statistical learning.* Poster presented at Young Scholar Speaker Series, CLS. University Park, PA.

Lew-Williams, C., **Bulgarelli, F**., & Saffran, J. R. (2013). *Infants’ tracking of statistical regularities across multiple talkers: A cautionary tale.* Talk presented at the Symposium on Research in Child Language Disorders. Madison, WI

**RESEARCH EXPERIENCE**



**Postdoctoral associate** 2018 -present

Bergelson Lab

Duke University

**Graduate researcher** 2013-2018

Child Language and Cognition Lab

Pennsylvania State University

**Undergraduate Research Assistant** 2012-2013

Infant Learning Lab

University of Wisconsin

**TEACHING EXPERIENCE**



**Psych 301W- Research methods** 2018

Instructor

**Graduate Online Teaching Certificate** 2017

**Graduate Teaching Assistant**

Psych485 – Leadership in the Work Setting Fall 2013

Psych260 – Neural Bases of Human Behavior Spring 2014

Psych432 – Multicultural Psychology Spring 2014

Psych456 – Advanced Cognitive Psychology Spring 2015

**Guest Lectures**

**Bulgarelli, F.** (2017) *Studying infant (bilingual) language development.* Lecture presented during SPAN 497: The ABCs of Bilingualism: Acquisition, Brain and Community, University Park, PA.

**Bulgarelli, F.** (2015) *Speech Perception.* Lecture presented during PSYCH 432: Advanced Cognitive Psychology, University Park, PA.

**Bulgarelli, F.**  (2014) *Language and Identity Development.* Lecture presented during PSYCH 432: Multicultural Psychology, University Park, PA.

**SERVICE**



**Symposia**

*Contending with talker variability across development.* Co-chaired with Dr. Chris Potter at the 2019 Society for Research in Child Development Meeting.

**Graduate student representative** 2017

Cognitive Psychology Faculty Search Committee

**Student Editor** 2015-2017

Translational Issues in Psychological Science: Translating Research to Practice in the Language

**Ad-hoc reviewer**

Child Development, Language Learning and Development, Laboratory Phonology, Bilingualism, Language and Cognition, Journal of Experimental Psychology, Journal of Neurolinguistics

**Bilingualism Matters at Penn State** 2014-present

*Assisted with outreach events informing the community about bilingualism research*

**AXONS: Academic eXperimental Organization for Neuroscience Students**

Member 2014-present

Secretary 2015-2016

Pennsylvania State University

*Student neuroscience group*

**Administrative Assistant** 2013-2014

Pennsylvania State University

*Aided in strategic plan data collection for the department*