

# Pamela Fuhrmeister, PhD

+49 01520 4350697

pamfuhrmeister@gmail.com

www.pamfuhrmeister.com

## Education

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- 2020 Ph.D., Speech, Language, and Hearing Sciences  
University of Connecticut  
Dissertation title: *Neural correlates of native-language speech perception and non-native speech sound learning*  
Advisor: Dr. Emily Myers
- 2011 M.A., Applied Linguistics  
Texas Tech University
- 2009 B.A., German, Music  
Texas Tech University

## Professional experience

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- 2020- Postdoctoral researcher, University of Potsdam, Department of Linguistics

## Publications

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**Fuhrmeister, P.**, Elbuy, S., and Bürki, A. (submitted) Assessing reliability of picture-naming measures.

Heffner, C.C., **Fuhrmeister, P.**, Luthra, S., Mechtenberg, H., Saltzman, D., & Myers, E.B. (under review). Reliability for Perceptual Flexibility in Speech: Identification, Learning, and Adaptation.

**Fuhrmeister, P.**, McCoach, D.B., & Myers, E.B. (under review). Individual differences in phonological skills but not categorical perception predict non-native speech sound learning.

**Fuhrmeister, P.**, & Bürki, A. (under review). Distributional properties of semantic interference in picture naming: Bayesian meta-analyses.

**Fuhrmeister, P.**, Madec, S., Lorenz, A., Elbuy, S. & Bürki, A. (under review). Behavioral and EEG evidence for inter-individual variability in late encoding stages of word production.

**Fuhrmeister, P. & Myers, E.B.** (2021). Structural variation in the temporal lobe predicts learning and retention of non-native speech sounds. *Language, Cognition, and Neuroscience*. DOI: 10.1080/23273798.2021.1944658

**Fuhrmeister, P.** (2021). Examining group differences in between-participant variability in non-native speech sound learning. *Attention, Perception, and Psychophysics*. DOI: 10.3758/s13414-021-02311-3

**Fuhrmeister, P. & Myers, E.B.** (2021). Structural neural correlates of individual differences in categorical perception. *Brain and Language*, 215, 104919. <https://doi.org/10.1016/j.bandl.2021.104919>.

**Fuhrmeister, P., Schlemmer, B., & Myers, E.B.** (2020). Adults show initial advantages over children in learning difficult non-native speech sounds. *Journal of Speech, Language, and Hearing Research*, 63(8), 2667-2679. [https://doi.org/10.1044/2020\\_JSLHR-19-00358](https://doi.org/10.1044/2020_JSLHR-19-00358)

**Fuhrmeister, P., Smith, G., & Myers, E.B.** (2020). Overlearning of non-native speech sounds does not result in superior consolidation after a period of sleep. *The Journal of the Acoustical Society of America*, 147(3), EL289-294. <https://doi.org/10.1121/10.0000943>

**Fuhrmeister, P. & Myers, E.B.** (2020). Desirable and undesirable difficulties: influences of variability, training schedule, and aptitude on non-native phonetic learning. *Attention, Perception, and Psychophysics*, 82(4), 2049-2065. <https://doi.org/10.3758/s13414-019-01925-y>

**Fuhrmeister, P.** (2019). Interference in memory consolidation of non-native speech sounds. In S. Fuchs, J. Cleland, & A. Rochet-Capellan (Eds.), *Speech Production and Perception: Learning and Memory* (pp. 207-243). Berlin: Peter Lang. <https://doi.org/10.3726/b15982>

Luthra, S., **Fuhrmeister, P.**, Molfese, P. J., Guediche, S., Blumstein, S. E., & Myers, E. B. (2019). Brain-behavior relationships in incidental learning of non-native phonetic categories. *Brain and Language*, 198, 104692. <https://doi.org/10.1016/j.bandl.2019.104692>

**Fuhrmeister, P.** and Myers, E. B. (2017). Non-native phonetic learning is destabilized by exposure to phonological variability before and after training. *The Journal of the Acoustical Society of America*. 142(5), EL448-EL454. doi: 10.1121/1.5009688

## Grants and other awards

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2020

Finalist, Isabelle Y. Liberman Award (\$1,250)

- 2019            **University of Connecticut Doctoral Dissertation Fellowship** (\$2,000)
- 2018 -        **National Science Foundation Research Traineeship Fellowship,**  
2019        University of Connecticut, Science of Learning and Art of Communication  
(\$34,000)
- 2018            **Summer Fellowship,** Connecticut Institute for the Brain and Cognitive  
Sciences (\$5,000)
- 2015 -        **National Science Foundation IGERT Fellowship,** University of  
2017        Connecticut, IGERT: Language Plasticity – Genes, Brain, Cognition, and  
Computation (\$60,000)
- 2016            **NSF IGERT Innovation Incentive Grant** (\$2,030)
- 2015            **NSF IGERT Innovation Incentive Grant** (\$2,500)

#### **Recent conference presentations or invited talks**

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**Fuhrmeister, P.** and Myers, E.B. (2019, August). Structural neural correlates of native-language speech perception and non-native speech sound learning. Poster presented at the 2019 meeting of the Society for the Neurobiology of Language, Helsinki, Finland.

**Fuhrmeister, P.** (2018, November). Einflüsse von Schlaf und Variabilität auf das Lernen von neuen Phonemen in einer Fremdsprache. Invited talk at the colloquium for corpus linguistics and phonetics at the Humboldt Universität zu Berlin, Berlin, Germany.

**Fuhrmeister, P.** and Myers, E.B. (2018, November). Helping the rich get richer: Aptitude and challenging learning conditions facilitate overnight improvement of non-native phonetic learning. Poster presented at the 2018 meeting of the Psychonomic society, New Orleans, Louisiana, USA.

**Fuhrmeister, P.,** Myers, E.B., Bowles, A., and Harper, D. (2018, October). Memory consolidation in learning L2 speech contrasts. Paper presented at the 37<sup>th</sup> Second Language Research Forum, Montreal, Quebec, Canada.

Luthra, S., **Fuhrmeister, P.,** Molfese, P.J., Guediche, S., Blumstein, S.E., and Myers, E.B. (November, 2017). Brain-behavior relationships in implicit learning of non-native phonetic categories. Poster presented at the 2017 meeting of the Society for the Neurobiology of Language, Baltimore, Maryland, USA.

**Fuhrmeister, P.** and Myers, E.B. (2017, June). Perception of native language speech sounds does not predict non-native speech sound learning. Poster presented at

the June 2017 meeting of the Acoustical Society of America, Boston, Massachusetts, USA.

**Fuhrmeister, P.** (2017, January). The role of native language interference in perceptual learning of non-native speech sounds. Paper presented at the 5<sup>th</sup> International Winter School Speech Perception and Production: Learning and Memory, Chorin, Germany.

Luthra, S., **Fuhrmeister, P.**, Guediche, S., Blumstein, S., and Myers, E.B. (2016, November). Neural Correlates of Task-Irrelevant Perceptual Learning of Non-Native Speech Sounds. Poster presented at the November 2016 meeting of the Psychonomic Society, Boston, Massachusetts, USA.

**Fuhrmeister, P.**, Earle, F.S., Rueckl, J., and Myers, E.B. (2016, May). Visual and auditory native language interference in perceptual learning of non-native speech sounds. Poster presented at the May 2016 meeting of the Acoustical Society of America, Salt Lake City, Utah, USA.

## Service

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Ad hoc reviewer: *PeerJ*, *Journal of Phonetics*, *Applied Psycholinguistics*, *The Journal of the Acoustical Society of America*, *Brain and Language*, *NPJ Science of Learning*

## Teaching and mentoring

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### MENTORING

2015-2020	Mentored between one and five undergraduate or master's research assistants each semester in the lab and supervised them during experiment design, data collection, and (poster) presentations
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### INSTRUCTOR OF RECORD

Spring 2018	Introduction to Phonetic Principles University of Connecticut
Winter 2012	Englisch für akademische Zwecke - Integrativer Vorkurs I Englisch für akademische Zwecke - Integrativer Vorkurs II Universität Potsdam
Spring 2011	Beginning German I: Comprehensive 1 <sup>st</sup> Year Review Texas Tech University
Fall 2010	Beginning German I: Comprehensive 1 <sup>st</sup> Year Review Texas Tech University

### TEACHING ASSISTANTSHIPS

Spring 2010	Intermediate German II Texas Tech University
Fall 2009	Intermediate German I Texas Tech University

## **Skills**

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R programming and statistics: frequentist and Bayesian statistical analyses (e.g., generalized linear and non-linear mixed effects models using lme4 and bmrs, exploratory and confirmatory factor analysis, cluster analysis, Bayesian meta-analyses), data wrangling and visualization using tidyverse

Brain imaging software: Freesurfer, AFNI

Praat for acoustic analysis of speech

Experiment presentation software: E-Prime, OpenSesame, PsychoPy

Languages: English (native), German (fluent), Spanish (low-intermediate), French (survival)