

# Katie Von Holzen

Akademische Rätin

Curriculum Vitae  
February 2020

📍 Lehrstuhl Linguistik des Deutschen, Technische Universität Dortmund  
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## Education

2013 **Dr. rer. nat. Psychology, magna cum laude**  
Georg-August-Universität Göttingen, Germany

2009 **B.S. Psychology, summa cum laude**  
University of Wisconsin - Green Bay, USA

## Employment

2019-present	<b>Akademische Rätin (Senior Postdoctoral Researcher)</b> Technische Universität Dortmund, Germany	Supervisor: Prof. Dr. Sarah Schimke
2017-2019	<b>Postdoctoral Researcher</b> University of Maryland, USA	Mentor: Prof. Rochelle Newman
2014-2017	<b>Postdoctoral Researcher</b> Université Paris Descartes, France	Supervisor: Dr. Thierry Nazzi
2010-2013	<b>Scientific Staff</b> Georg-August-Universität Göttingen	Supervisor: Prof. Dr. Nivedita Mani
2009	<b>Summer Research Intern</b> Dartmouth College, USA	Supervisor: Prof. Todd Heatherton

## Research Areas

- Language acquisition (bilingual and monolingual)
- Developmental language outcomes
- Event-Related Potentials (ERPs)
- Word/wordform recognition
- Speech segmentation
- Phono-lexical processing
- Foreign speech processing
- Bilingual lexical access
- Mispronunciation sensitivity
- Consonant bias in lexical processing

## Publications

### Published peer-reviewed papers

1. Bobb, SC, K Von Holzen, J Mayor, N Mani, and M Carreiras (2020). Co-activation of the L2 during L1 auditory processing : An ERP cross-modal priming study. *Brain and Language* **203**(December 2019), 104739.
2. Von Holzen, K, CT Fennell, and N Mani (2019). The impact of cross-language phonological overlap on bilingual and monolingual toddlers' word recognition. *Bilingualism: Language and Cognition*.
3. Von Holzen, K, LL Nishibayashi, and T Nazzi (2018). Consonant and vowel processing in word form segmentation: An infant ERP study. *Brain Sciences* **8**(24), 1–15.
4. Nazzi, T, S Poltrock, and K Von Holzen (2016). The developmental origins of the consonant bias in lexical processing. *Current Directions in Psychological Science* **25**(4), 291–296.
5. Von Holzen, K and N Mani (2014). Bilinguals implicitly name objects in both their languages: An ERP study. *Frontiers in Psychology* **5**(DEC), 1–12.
6. Von Holzen, K and N Mani (2012). Language nonselective lexical access in bilingual toddlers. *Journal of Experimental Child Psychology* **113**, 569–586.

### Chapters in Books

1. Bobb, SC, LY Drummond Nauck, N Altvater-Mackensen, K Von Holzen, and N Mani (2016). "Listening with your cohort: Do bilingual toddlers co-activate cohorts from both languages when hearing words in one language alone?" In: *Cognitive Control and Consequences of Multilingualism*. John Benjamins Publishing Company, pp.47–69.

### Peer-Reviewed Conference Proceedings

1. Von Holzen, K and C Bergmann (2018). A meta-analysis of infants' mispronunciation sensitivity development. In: *Proceedings of the 40th Annual Conference of the Cognitive Science Society*. Ed. by T Rogers, M Rau, X Zhu, and CW Kalish. Austin, TX: Cognitive Science Society, Inc., pp.1157–1162.

### Open Data

1. Von Holzen, K and C Bergmann (2018). *Infant Mispronunciation Sensitivity (InMisSens) Meta-Analysis - Cognitive Science Society Submission*. Charlottesville, VA. [osf.io/nvc8m](https://osf.io/nvc8m).

### PhD Thesis

1. Von Holzen, K (2013). "The initial and long-lasting effects of early bilingual language acquisition on lexical access: Evidence from ERP and eye-tracking studies". Unpublished doctoral dissertation. Georg-August-Universität Göttingen.

### Manuscripts accepted for publication

1. ManyBabies Consortium (accepted). Quantifying sources of variability in infancy research using the infant-directed speech preference. *Advances in Methods and Practices in Psychological Science*.
2. O'Fallon, MK, K Von Holzen, and RS Newman (accepted). Preschoolers? word-learning during shared storybook reading interactions. *Journal of Speech, Language, and Hearing Research*.
3. Raneri, D, K Von Holzen, R Newman, and N Bernstein Ratner (accepted). Change in maternal speech rate to preverbal infants over the first two years of life. *Journal of Child Language*.
4. Von Holzen, K and T Nazzi (accepted). Emergence of a consonant bias during the first year of life: New evidence from own-name recognition.

### Manuscripts under revision or review

1. Newman, RS, LA Kirby, K Von Holzen, and E Redcay (under review). "Read my lips! Perception of speech in noise by preschool children with autism and the advantage of watching the speaker's face."
2. Von Holzen, K and C Bergmann (under review). "The development of infants' responses to mispronunciations: A Meta-Analysis."

### Grants

2017	<b>Comparative and Evolutionary Biology of Hearing NIH Postdoctoral Training Grant</b> 5T32DC00046 – 23
2009	<b>Psi Chi Association of Psychological Science Summer Research Grant</b> \$5,000

### Awards

2019	<b>Society for Improvement of Psychological Science Mission Award</b> For improving psychological science in the face of challenge, as contributor to the ManyBabies1 Collaboration
2018	<b>Berkeley Initiative for Transparency in the Social Sciences (BITSS) Meta-Analysis Challenge Winner</b> Shared with co-author Christina Bergmann, \$1,000
2014	<b>Summer School Travel Grant: GDR Neurosciences Cognitives du Développement bourses de mobilité à des doctorants</b> For the Potsdam Summer School, "Infant Studies on Language Development in Europe (ISOLDE)"
2013	<b>Universitätsbund Göttingen Travel Grant</b> For the International Workshop on Bilingualism and Cognitive Control in Krakow, Poland
2011	<b>Paula Menyuk Travel Award</b> For BUCLD 2011, \$300
2010	<b>Phi Eta Sigma National Honor Society Graduate Scholarship</b> \$7,000
2009	<b>2nd place Margaret Bernauer Psychology Research Award</b> Awarded for Poster Presentation at the Wisconsin Psychological Association Conference, \$200

### Invited Talks

1. Von Holzen, K (2019, December). *On the road to bilingualism: Foreign speech processing at first exposure in early childhood*. Presented at the Psychology Institute Colloquium, Johannes Gutenberg Universität Mainz, Germany.
2. Von Holzen, K (2019, April). *Babies know words, even when they're mispronounced: A meta-analysis of mispronunciation sensitivity*. Presented at the Linguistics Department, City University of New York, USA.

3. Von Holzen, K (2018, December). *On the road to bilingualism: The role of age in foreign speech processing*. Presented at the Team Meeting of the Language and Cognition Group, The Institute of Neuroscience and Cognition, Paris Descartes Université, Paris, France.
4. Von Holzen, K and T Nazzi (2016, September). *Origine de l'asymétrie consonne/voyelle lors du traitement lexical*. Presented at the Agence nationale de la recherche meeting of the grant funding programme BLANC 2013, Paris, France.
5. Von Holzen, K (2014, May). *Segmentation of infant- and adult-directed speech in 12-month-olds: An ERP study*. Presented at the Concordia Infant Research Laboratory Team Meeting, Montreal, Canada.
6. Von Holzen, K (2012, November). *The cognate facilitation effect in bilingual and monolingual toddlers*. Presented at the Workshop on Monolingual and Bilingual Word Recognition and Learning in Infants and Adults, Basque Center on Cognition, Brain, and Language, San Sebastian, Spain.
7. Von Holzen, K (2012, November). *Learning phonemes from faces: The role of speaker identity in non-native phoneme discrimination*. Presented at the Workshop on Monolingual and Bilingual Word Recognition and Learning in Infants and Adults, Basque Center on Cognition, Brain, and Language, San Sebastian, Spain.
8. Von Holzen, K (2012, June). *Mechanisms underlying lexical processing in monolingual and bilingual toddlers*. In L. Polka (Chair), Comparing monolingual and bilingual language acquisition during infancy. Invited symposium conducted at the XVIIIth Biennial International Conference on Infant Studies, Minneapolis, MN.

## Conference Activity

### Talks Presented

1. Von Holzen, K and C Bergmann (2019, March). *Can a dog be a dog? A meta-analysis of experimental factors influencing infants' mispronunciation sensitivity*. In Gonzalez-Gomez, N. (Chair), Big ideas to tackle small samples. Presented at the Biennial Meeting of the Society for Research in Child Development, Baltimore, USA.
2. Von Holzen, K and C Bergmann (2018, July). *A meta-analysis of infants' mispronunciation sensitivity development*. Presented at the 40th Annual Meeting of the Cognitive Science Society, Madison, WI, USA.
3. Von Holzen, K and R Newman (2018, December). *On the road to bilingualism: The role of native language knowledge in foreign speech processing*. In Koostra, G. J. and Bosma, E. (Chairs), Cross-language activation in bilingual children. Presented at the Conference on Multilingualism, Ghent, Belgium.
4. Von Holzen, K, LL Nishibayashi, and T Nazzi (2017, June). *An ERP study of consonant and vowel processing of newly segmented word forms*. Presented at the Workshop on Infant Language Development, Bilbao, Spain.
5. Von Holzen, K and T Nazzi (2015, June). *The role of consonants and vowels in 5- and 8-month-old own name recognition: Implications for lexical development*. Presented at the second Workshop on Infant Language Development, 2015, Stockholm, Sweden.
6. Von Holzen, K, D Wolff, and N Mani (2014, July). *Segmentation of infant- and adult-directed speech in 12-month-olds: An ERP study*. In K. Von Holzen (Chair), Segmenting words from continuous speech: Examining varied input sources for infants. Symposium conducted at the XIXth Biennial International Conference on Infant Studies, Berlin, Germany.
7. Von Holzen, K, D Wolff, and N Mani (2013, October). *Segmentierungsfähigkeit von infant- und adult-directed speech bei 12 Monate alten Kindern (Segmentation of infant- and adult-directed speech in 12-month-old infants)*. Presented at the 22nd Deutsches EEG/EP Mapping Meeting, Giessen, Germany.
8. Von Holzen, K and N Mani (2012, March). *The cognate facilitation effect in bilingual toddlers*. Presented at the International Workshop Bilingual and Multilingual Interaction, Bangor, Wales.
9. Von Holzen, K and N Mani (2012, March). *Language non-selective lexical access in bilingual toddlers*. Presented at the International Workshop Bilingual and Multilingual Interaction, Bangor, Wales.
10. Von Holzen, K and N Mani (2012, June). *Learning phonemes from faces: The role of speaker identity in non-native phoneme discrimination*. In K. Von Holzen (Chair), Infant phonetic learning in context: The influence of faces, objects, and words. Symposium conducted at the XVIIIth Biennial International Conference on Infant Studies, Minneapolis, MN.
11. Von Holzen, K and N Mani (2011, September). *Bilingual phonological priming: An ERP study investigating interconnectivity of activation in the bilinguals two lexicons at different points in development*. In J. Mayor (Chair), The emergence of lexical networks in the second year of life. Symposium conducted at the 17th Meeting of the European Society for Cognitive Psychology, San Sebastian, Spain.

### Posters Presented

1. Von Holzen, K and C Bergmann (2018, July). *A meta-analysis of mispronunciation sensitivity in infancy*. Presented at the XXIth Biennial International Conference on Infant Studies, Philadelphia, PA.

2. Von Holzen, K, S Van Ommen, K White, and T Nazzi (2018, July). *French-learning infants' adaptation to a novel accent: The role of consonant/vowel asymmetry*. Presented at the XXIth Biennial International Conference on Infant Studies, Philadelphia, PA.
3. Von Holzen, K, LL Nishibayashi, and T Nazzi (2017, November). *Neural bases of phonological processing of newly segmented word forms*. Presented at the 2017 Boston University Conference on Language Development, Boston, MA.
4. Von Holzen, K, D Rider, and T Nazzi (2017, July). *Consonant and vowel processing in 5-, 8-, and 11-month-olds own name recognition: The role of acoustic/phonetic and lexical factors*. Presented at the Congress of the International Association for the Study of Child Language, Lyon, France.
5. Von Holzen, K, CT Fennell, and N Mani (2014, July). *The cognate facilitation effect in bilingual and monolingual toddlers*. Presented at the XIXth Biennial International Conference on Infant Studies, Berlin, Germany.
6. Von Holzen, K, F Kremer, and N Mani (2013, May). *Associating a language with a speaker: Bilingual production is influenced by speaker language*. Presented at the International Workshop on Bilingualism and Cognitive Control, Krakow, Poland.
7. Von Holzen, K and N Mani (2013, June). *Native and non-native phoneme perception in bilingual toddlers: A longitudinal study*. Presented at the Workshop on Infant Language Development, San Sebastian, Spain.
8. Von Holzen, K, D Wolff, and N Mani (2013, June). *Segmentation of IDS and ADS in 12-month-olds: An ERP study*. Presented at the Workshop on Infant Language Development, San Sebastian, Spain.
9. Von Holzen, K and N Mani (2011, November). *Learning phonemes from faces: The role of speaker identity in non-native phoneme discrimination*. Presented at the 2011 Boston University Conference on Language Development, Boston, MA.
10. Von Holzen, K and N Mani (2011, April). *Word-word relationships between languages and across development*. Presented at the 2011 CNS Annual Meeting, San Francisco, CA.
11. Von Holzen, K and N Mani (2010, September). *Phonological priming across language borders: No passport required?* Presented at the Donostia Workshop on Neurobilingualism, Donostia-San Sebastian, Spain.

## Teaching and Mentorship

### Courses Taught

#### Lecture-based Courses

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|------|---|
| 2018 | <b>Should I Buy That? Comparing Media Claims with Scientific Evidence from Brain &amp; Behavior Research</b> <ul style="list-style-type: none"> <li>➤ Bachelor students</li> <li>➤ Department of Hearing and Speech Sciences</li> <li>➤ University of Maryland</li> </ul> |
| 2011 | <b>Experimental Methods for Testing Language Comprehension</b> <ul style="list-style-type: none"> <li>➤ Bachelor students</li> <li>➤ German Department</li> <li>➤ Georg-August-Universität Göttingen</li> </ul>   |

#### Seminars

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|------|---|
| 2019 | <b>Zwei Sprachen, ein Gehirn: Bilingualismus und dessen Konsequenzen (Two Languages, One Mind: Bilingualism and its Consequences)</b> <ul style="list-style-type: none"> <li>➤ Master students</li> <li>➤ German Department</li> <li>➤ Technische Universität Dortmund</li> </ul> |
| 2019 | <b>Einführung in die Sprachwissenschaft (Introduction to Linguistics)</b> <ul style="list-style-type: none"> <li>➤ Bachelor students</li> <li>➤ German Department</li> <li>➤ Technische Universität Dortmund</li> </ul>   |

- 2012      **Language Acquisition and Processing**
- Bachelor students
  - German Department
  - Georg-August-Universität Göttingen

## Tutorials

- 2017      **Setting up and analyzing an eye-tracking experiment: From Open Sesame to Eyelink to R**
- Doctoral students, postdoctoral researchers, and faculty
  - Université Paris Descartes
- 2017      **Time Course Analysis in R**
- Doctoral students, Research Training Group 2070
  - Georg-August-Universität Göttingen
- 2016      **EEG Pre-processing and Analysis Using EEGLAB and ERPLAB**
- Doctoral students, postdoctoral researchers, and faculty
  - Université Paris Descartes

## Students Mentored

### University of Maryland

*A fast note about slow rate in IDS: Maternal speech rate to preverbal infants facilitates early language development*, 2018-2019

Sara Cusick, Assistantship  
 Mary Murphy, Assistantship  
 Kayla Whitlock, Assistantship  
 Jennifer Zuhl, Assistantship  
 Julia Grable, Assistantship  
 Alexia Proctor, Assistantship

*Utterance alignment of a large, longitudinal corpus in CLAN/CHAT*, 2018-2019

Heather Wibberley, Assistantship  
 Taylor Trent, Assistantship  
 Jillian Doherty, Assistantship  
 Maggie Roman, Assistantship  
 Dominique Jenkins, Assistantship  
 Jessica Mooney, Assistantship

### Université Paris Descartes

*French-learning infants' adaptation to a novel accent: The role of consonant/vowel asymmetry*

Rosalie Delille, Internship, 2017

*Consonant and vowel processing in word form segmentation: An infant ERP study*

Sofia Carrion, Internship, 2017  
 Elisa Moulin, Internship, 2015-2016  
 Jeanne Charoy, Internship, 2015  
 Marion Lafargue, Internship, 2014-2015

*Emergence of the C-bias during the first year of life: New evidence from own name recognition*

Safyya Larinouna, Internship, 2016  
 Henry Cheng, International Visiting Internship, 2014

### Georg-August-Universität Göttingen

*Associating a language with a speaker: Bilingual production is influenced by speaker language*

Bachelor Thesis, Fabienne Kremer, 2013

*Segmentierungsfähigkeit von infant- und adult-directed speech bei 11-13 Monate alten Kindern. Eine ERP-Studie. (Segmentation abilities in infant- and adult directed speech in 11-13 month old children: An ERP study)*

Master Thesis, Deborah Wolff, 2012

*Spoken word perception in L1 and L2: An ERP study of the influence of speaker, gender, frequency, and repetition*

Masters Internship, Agnieszka Leszczynska, 2012

## Skills

## Experiment Programming Experience

### Open Sesame/Python

- Intermediate expertise
- Designing experiments, including lexical decision (adults), visual world paradigm (with and without an eye-tracker) and preferential listening (infants)
- Experience advising colleagues on experimental design
- Conducting tutorials with colleagues and students
- Used to promote Open Science practices

### Presentation (Neurobehavioral Systems)

- Intermediate expertise
- Designing experiments, including EEG experiments

### EPrime (Psychology Software Tools, Inc.)

- Beginner expertise
- Designing experiments, including EEG experiments

## Statistical/Data Analysis Experience

### R

- Proficient expertise
- Advising colleagues on statistical analysis, data wrangling
- Conducting tutorials on eye-tracking data
- Growth growth curve modeling (lmer package)
- Mixed effects models (lmer package)
- ANOVA analyses (ez package)
- Producing beautiful graphics (ggplot2 package)
- Analyzing vocabulary data corpora (wordbankr package)
- Power analysis (pwr package)
- Creating RMarkdown files to promote collaboration and accuracy
- Used to promote Open Science practices

### Praat

- Intermediate expertise
- Scripting to automatically analyze sounds (pitch, duration, intensity)
- Stimuli creation
- Interfacing with CLAN output to analyze corpora
- Interfacing with a forced aligner (Easy Align)
- Used to promote Open Science practices

### CHAT/CLAN

- Intermediate expertise
- Analyzing length of utterance
- Time-locking transcripts to audio recordings
- Interfacing with Praat

### EEG/ERPlab

- Intermediate expertise
- Preprocessing EEG data
- Conducting tutorials
- Related MATLAB scripting to automatically analyze EEG/ERP data

### SPSS

- Intermediate expertise
- ANOVA analyses

## Service

### Institutional Service

University of Maryland

- 2019 **Member of the Cultural and Linguistic Diversity Committee**  
 2018 **Panel judge for Graduate Research Appreciation Day**

### **Université Paris Descartes**

- 2014-2017 **Co-founder and organizer, Parisian BabyLab Meetings (PaBaLa)**  
 2014-2016 **Co-Chair, Student and Post-doc Talks (SPOT)**

### **Professional Service**

#### **Ad-hoc Review**

View my Publons Peer Review Profile

- Journal of Experimental Child Psychology
- Developmental Science
- Language and Speech
- Infancy
- Bilingualism: Language and Cognition
- Developmental Cognitive Neuroscience
- Child Development
- Journal of Cognitive Psychology
- Journal of Memory and Language

#### **Conference Review**

- International Congress of Infant Studies (ICIS) Conference (2020), Glasgow, UK
- International Association for the Study of Child Language (IASCL) Conference (2020), Philadelphia, PA, USA
- CCERBAL Conference: Bilingual from Birth: Process, Pedagogy and Policy (2016). Ottawa, Canada
- International Workshop on Bilingualism and Cognitive Control (2013). Jagiellonian University, Krakow, Poland
- International Workshop: "Bilingual and Multilingual Interaction" ESRC Centre for Research on Bilingualism (2012), Bangor, Wales

### **Professional Memberships**

- 2019- **Member of the Deutscher Hochschulverband**  
 2018- **Member of the International Congress on Infant Studies**  
 2017- **Member of the National Postdoctoral Association (USA)**  
 2012- **Member of Women in Cognitive Science (WICS)**

### **Languages**

- English, native
- German, fluent (C1)
- French, beginner (A2)

### **Community Involvement/Outreach**

- 2018, 2019 **Rosa Parks Elementary School, Hyattsville Education Advisory Committee's Summer Reading Program**  
 Volunteer  
 2014 **Winneconne Elementary School, "Being a scientist and living in a foreign country"**  
 Presenter  
 2012 **Preschool Immersion Event, "Bilingual Language Development at ASC Kinderbewegungshaus"**  
 Presenter