

# Curriculum Vitae

---

Mariella Paul

---

## Work Experience

- Since 2020 **Postdoctoral Researcher at University of Göttingen**, Research Group “Psychology of Language”, Research Topic “Curiosity-driven Word Learning”.
- 2015–2016 **Research Assistant at University of Potsdam**, Linguistics Department, BabyLAB, Research Topic “New Pragmatic Theories based on Experimental Evidence”.
- 2015–2016 **Internship at University of Potsdam**, Linguistics Department, Neurocognition of Language, Research Topic “New Pragmatic Theories based on Experimental Evidence”.
- 2014–2015 **Student Assistant at Osnabrück University**, Institute of Cognitive Science, Computational Linguistics, Research Topic “Definites, Demonstratives, and Reference”.
- 2013–2014 **Erasmus Internship at the MPI for Psycholinguistics, Nijmegen**, Language and Genetics Department, Research Topic “Brain and Behavioural Asymmetries”.

---

## Education

- 2016–2020 **Doctoral candidate in Psychology**, Max Planck Institute for Human Cognitive and Brain Sciences (MPI-CBS), Department of Neuropsychology; Berlin School of Mind and Brain.  
PhD Thesis (working title): “The development of non-adjacent dependency learning in the linguistic and non-linguistic auditory domain during early childhood” supervised by Prof. Dr. Dr. h.c. A.D. Friederici and Prof. Dr. I. Wartenburger. Funding awarded by the Berlin School of Mind and Brain.
- 2015–2016 **International Master of Experimental and Clinical Linguistics**, *with distinction*, University of Potsdam, Linguistics Department.  
Master’s Thesis: “Do You See What I See? An EEG-study on the Time Course of Perspective Taking” supervised by Prof. Dr. I. Wartenburger and Dipl. Patholinguist M. Richter.
- 2011–2015 **Bachelor of Cognitive Science**, Osnabrück University, Institute of Cognitive Science.  
Bachelor’s Thesis: “Development of Auditory Rule Learning in Early Childhood – an ERP-study” supervised by Juniorprof. Dr. J. Mueller and Priv. Doz. Dr. U. Martens.

Stephanstraße 1 – 04103 Leipzig – Germany

☎ +49 (0) 341 9940 119 • ✉ paulm@cbs.mpg.de

## Publications

- 2020 Schaadt, G.\*, **Paul, M.\***, Muralikrishnan, R., Männel, C., & Friederici, A.D., *Seven-year-olds recall non-adjacent dependencies after overnight retention*.  
\*These authors contributed equally. <https://doi.org/10.1016/j.nlm.2020.107225>
- 2020 van der Kant, A., Männel, C., **Paul, M.**, Friederici, A.D., Höhle, B., Wartenburger, I., *Domain-specificity of non-adjacent dependency learning in early human development*.  
<https://doi.org/10.1016/j.dcn.2020.100819>
- 2020 Richter, M., **Paul, M.**, Höhle, B., Wartenburger, I., *Common Ground Information Affects Reference Resolution: Evidence from Behavioral Data, ERPs, and Eye-tracking*.  
<https://doi.org/10.3389/fpsyg.2020.565651>
- under review **Paul, M.**, Männel, C., van der Kant, A., Mueller, J.L., Höhle, B., Wartenburger, I., & Friederici, A.D., *Gradual development of non-adjacent dependency learning during early childhood*.  
<https://doi.org/10.1101/2020.09.01.277822>
- under review **Paul, M.\***, Govaart, G.H.\*, Schettino, A.\*, *Preregistration: A Solution to Undisclosed Analytic Flexibility in ERP Research*.  
\*These authors contributed equally. <https://doi.org/10.31234/osf.io/4tgve>

## Scholarships and Awards

- 2016–2019 **Mind & Brain Scholarship**.  
PhD scholarship awarded by the Berlin School of Mind and Brain.
- 2019 **SIPS 2019 Travel award**.  
Travel award awarded by the Society for the Improvement of Psychological Science (SIPS).

## Invited Talks

- 2018 **Paul, M.**, *Harry Potter and the Methods of Reproducibility – a brief introduction to Open Science*, Talk presented at CogSci Futures conference, Germany, October 2019.  
Materials available on OSF: <https://osf.io/m67rf/>
- 2018 **Paul, M.** & van der Kant, A., *Developmental shift in non-adjacent dependency learning*, Talk presented at the Neurolinguistics Kolloquium at University of Potsdam, Germany, July 2018.
- 2017 **Paul, M.**, *Associative learning of non-adjacent dependencies: ERP evidence from 24-month-olds*, Talk presented at the Neurolinguistics Kolloquium at University of Potsdam, Germany, October 2017.

## Conference Talks

- 2019 **Paul, M.**, *Non-adjacent dependency learning undergoes a developmental shift around the age of 2 years*, Talk presented at the joint meeting of the developmental and pedagogic psychology groups of the German Psychological Society (paEpsy) 2019, Leipzig, Germany, September 2019.
- 2019 Conry-Murray, C., Dietrich, B., & **Paul, M.**, *Open science in time-limited student projects*, Unconference session presented at Society for the Improvement of Psychological Science (SIPS) 2019, Rotterdam, the Netherlands, July 2019.
- 2018 van der Kant, A. & **Paul, M.**, *Developmental shift in non-adjacent dependency learning*, Talk presented at Crossing the Borders Conference, Potsdam, Germany, September 2018.
- 2018 **Paul, M.** & van der Kant, A., *Developmental shift in non-adjacent dependency learning*, Talk presented in symposium "Grammar learning in Infancy", International Congress of Infant Studies (ICIS), Philadelphia, USA, July 2018.
- 2018 van der Kant, A. & **Paul, M.**, *P1: Developmental shift from associative to controlled learning*, Talk presented at the annual meeting of the DFG-funded project Crossing the Borders in Munich, Germany, February 2018.
- 2017 **Paul, M.** & van der Kant, A., *P1 – The sensitive period for associative learning of non-adjacent dependencies in verbal and non-verbal material*, Talk presented at the annual meeting of the DFG-funded project Crossing the Borders in Göttingen, Germany, May 2017.

## Posters

- 2020 **Paul, M.**, Männel, C., van der Kant, A., Mueller, J.L., Wartenburger, I., Höhle, B., & Friederici, A.D., *Gradual Shift of non-adjacent dependency learning during early childhood*, Poster presented virtually at IMPRS Conference 2020 in Nijmegen, the Netherlands, June 2020.
- 2018 **Paul, M.**, Männel, C., Mueller, J.L., van der Kant, A., Wartenburger, I., Höhle, B., & Friederici, A.D., *The sensitive period for associative learning of non-adjacent dependencies: ERP evidence*, Poster presented at 51st Congress of the German Psychological Society (DGPs) in Frankfurt, Germany, September 2018.
- 2018 van der Kant, A., **Paul, M.**, Männel, C., Friederici, A.D., Höhle, B., & Wartenburger, I., *fNIRS reveals a sensitive period for non-adjacent dependency learning in the linguistic domain*, Poster presented at International Congress of Infant Studies (ICIS), Philadelphia, USA, July 2018.

Stephanstraße 1 – 04103 Leipzig – Germany

☎ +49 (0) 341 9940 119 • ✉ paulm@cbs.mpg.de

- 2017 Richter, M., Lee, C., **Paul, M.**, Wartenburger, I., & Höhle, B., *How common ground information affects reference resolution in children and adults: evidence from behavioral data, eye-tracking and ERPs*, Poster presented at the annual XPRAG.de meeting in Cologne, Germany, September 2017.
- 2017 **Paul, M.**, Männel, C., Mueller, J.L., van der Kant, A., Wartenburger, I., Höhle, B., & Friederici, A.D., *The sensitive period for associative learning of non-adjacent dependencies: ERP evidence from 24-month-olds*, Poster presented at Interdisciplinary Advances in Statistical Learning in Bilbao, Spain, June 2017.
- 2017 van der Kant, A., Männel, C., **Paul, M.**, Friederici, A.D., Höhle, B., & Wartenburger, I., *Adult associative learning of non-adjacent dependencies in tone sequences is related to musical experience*, Poster presented at Interdisciplinary Advances in Statistical Learning in Bilbao, Spain, June 2017.
- 2016 Richter, M., **Paul, M.**, Lee, C., Zhang, L., Höhle, B., & Wartenburger, I., *I spy with my little eye: ERP signatures of perspective taking in referential communication*, Poster presented at the Eighth Annual Society for the Neurobiology of Language Conference in London, UK, August 2016.
- 2014 **Paul, M.**, Guadalupe, T., Zwiers, M.P., Fisher, S.E., Francks, C., *Are schizophrenia risk alleles associated with brain morphology changes in healthy subjects?*, Poster presented at Interdisciplinary College 2014 “Cognition 3.0: the social mind in the connected world” in Günne, Germany, March 2014.

## Teaching

- 2020 **Open Science and Research Ethics**, Guest lecture in the course “Planning and Conducting a Psychology Experiment”, MPI-CBS.  
Slides available on OSF: <https://osf.io/m67rf/>
- 2018 **A Hands-on Introduction to Event-Related Potentials**, Block course, Berlin School of Mind and Brain.  
Slides and code available on OSF: <https://osf.io/rga5d/>
- 2014 **Introduction to Computational Linguistics**, Weekly tutorials accompanying lecture by Peter Bosch, Institute of Cognitive Science, Osnabrück University.

## Supervision

- 2018–2019 **Lisa Haake**, *Master’s thesis*, Title: “Neural Correlates of Grammatical Learning”, MPI for Human Cognitive and Brain Sciences.
- 2018–2019 **Wenwen Jin**, *Master’s thesis*, Title: “Adult ERP Study on Artificial Grammar Learning in the Non-Linguistic Domain”, MPI for Human Cognitive and Brain Sciences.

Stephanstraße 1 – 04103 Leipzig – Germany

☎ +49 (0) 341 9940 119 • ✉ [paulm@cbs.mpg.de](mailto:paulm@cbs.mpg.de)

---

## Mentoring

- 2017– **Aroma Dabas & Cornelia van Scherpenberg**, *Mentoring at Berlin School of Mind and Brain*.
- 2017 **Larissa Rombold**, *Mentoring at European University Viadrina*.

---

## Academic Service

- 2020 **Organization of semi-regular Open Science workshops**, MPI-CBS, Open Science Initiative.
- 2018 **Organization of regular lab meetings focusing on language acquisition**, MPI-CBS, Department of Neuropsychology.
- 2018 **Organization of the conference Crossing The Borders: Development of language, cognition, and the brain**, University of Potsdam.

---

## Open Science

- Since 2019 **eLife Community Ambassador**.  
Awarded ambassadorship and training to promote Open Science.  
Focus: Reproducibility and preregistrations
- Since 2019 **CBS Open Science Initiative**.  
Member of the Steering Committee of the Open Science initiative at MPI-CBS.
- 2020 **Paul, M.**, Janssen, L., *How to start an OS initiative*, Blog post on ecrLife blog.  
<http://www.ecrlife.org/how-to-start-an-os-initiative/>
- 2019 **Blog Post “A fruitful rendezvous at SIPS: Neuroimagers meet study preregistration advocates”**, by Algermissen, J., Bartlett, J., Gau, R., Heunis, S., Klapwijk, E., Mazor, M., **Paul, M.**, Schettino, A., Mehler, D., OHBM Blog.  
<https://bit.ly/2YxBRF7>

---

## Outreach and Science Communication

- 2019 **Talk “Children’s first steps in language acquisition”**, Lab visit of high school students, MPI-CBS, Leipzig.
- 2018 **German translation of the coloring page “Colour your Learning: Brain Cells”**, original by Suzy J. Styles.  
<https://doi.org/10.21979/N9/0IEIPV>
- 2018 **Outreach event “Wissenschaft in Windeln” (Science in diapers)**, Long Night of the Sciences, MPI-CBS.

Stephanstraße 1 – 04103 Leipzig – Germany  
☎ +49 (0) 341 9940 119 • ✉ [paulm@cbs.mpg.de](mailto:paulm@cbs.mpg.de)

## Technical skills

### Programming Languages

R, Matlab, SPSS, LaTeX

### Software

Adobe (Photoshop, Illustrator), Office (Microsoft Office, Libre Office, Google Docs)

### Experimental Procedures

Eyetracking (remote and headmounted, with Tobii and SMI), EEG (active and passive systems, with Brain Products and Brain Vision), reaction time experiments, standardized tests, questionnaires

## Languages

**German:** native, **English:** fluent

## References

**Prof. Angela D. Friederici:** [friederici@cbs.mpg.de](mailto:friederici@cbs.mpg.de)

**Prof. Isabell Wartenburger:** [isabell.wartenburger@uni-potsdam.de](mailto:isabell.wartenburger@uni-potsdam.de)

*Stephanstraße 1 – 04103 Leipzig – Germany*

☎ +49 (0) 341 9940 119 • ✉ [paulm@cbs.mpg.de](mailto:paulm@cbs.mpg.de)