

# Friederike Contier

PhD Student in Cognitive Neuroscience  
University of Potsdam  
Née Friederike **Schütte**

Friederike.contier[at]gmail.com  
<https://friederikecontier.netlify.app>  
ORCID: 0000-0002-1771-8399

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## Education

- Aug 2020 – current    **PhD student, University of Potsdam, Germany**  
Cognitive Neuroscience Lab  
Project: “P600 and attention-related processes in (re-)building sentence meaning during language comprehension”  
Advisors: Prof. Dr. Milena Rabovsky, Prof. Dr. Mathias Weymar, & Prof. Dr. Isabell Wartenburger
- 2018 – 2020    **PhD student, University of Göttingen, Germany**  
Cognitive Development Lab
- 2018    **M.A., University of Erfurt, Germany**  
Applied Linguistics – Acquisition, Processing and Use of Language
- 2015    **B.A., European University Viadrina Frankfurt (Oder), Germany**  
Cultural and Social Studies & Sciences  
Exchange semester at Malmö Högskola, Sweden
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## Research Experience

- Aug 2020 – current    **Research associate, University of Potsdam, Germany**  
Cognitive Neuroscience Lab
- 2018 – 2020    **Research associate, University of Göttingen, Germany**  
Cognitive Development Lab
- 2018    **Research associate, University of Erfurt, Germany**  
Cognitive and Instructional Psychology Lab
- 2017 – 2018    **Research assistant, University of Erfurt, Germany**  
Language Acquisition and Multilingualism Lab
- 2017    **Research trainee, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands**  
Psychology of Language Department
- 2016 – 2018    **Research assistant, University of Erfurt, Germany**  
Cognitive and Instructional Psychology Lab
- 2014 – 2015    **Visiting researcher, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany**  
Department of Neurology
- 2013 – 2015    **Research assistant, European University Viadrina Frankfurt (Oder), Germany**  
Pragmatics and Contrastive Linguistics Lab

## Peer-reviewed publications

- Bleijlevens, N., **Contier, F.**, & Behne, T. (2023)<sup>P</sup>. Pragmatics Aid Referent Disambiguation and Word Learning in Young Children and Adults. *Developmental Science*.  
<https://doi.org/10.1111/desc.13363>
- Contier, F.**, Weymar, M., Wartenburger, I., & Rabovsky, M. (2022). Sustained Attention as Measured by Reaction Time Variability Is a Strong Modulator for the P600, but Not the N400. *Journal of Cognitive Neuroscience*, 34(12). 2297-2310.  
[https://doi.org/10.1162/jocn\\_a\\_01918](https://doi.org/10.1162/jocn_a_01918)
- Schweppe\*, J., **Schütte\*, F.**, Machleb, F., & Hellfritsch, M. (2021)<sup>P</sup>. Syntax, morphosyntax, and serial recall: How language supports short-term memory. *Memory & Cognition*, 50. 174-191. <https://doi.org/10.3758/s13421-021-01203-z>
- Schütte, F.**, Mani, N., & Behne, T. (2020)<sup>P</sup>. Retrospective inferences in selective trust. *Royal Society Open Science*, 7(2), 1-11. <https://doi.org/10.1098/rsos.191451>
- Fritz, T.H., **Schütte, F.**, Steixner, A., Contier, O., Obrig, H., & Villringer, A. (2019). Musical meaning modulates word acquisition. *Brain and Language*, 190(3). 10-15.  
<https://doi.org/10.1016/j.bandl.2018.12.001>

## Publications in progress

- Contier, F.**, Wartenburger, I., Weymar, M., & Rabovsky, M. (under review)<sup>P</sup>. The P600 and P3 ERP components are linked to the task-evoked pupillary response as a correlate of norepinephrine activity.
- Contier, F.**, & Rabovsky, M. (in prep.)<sup>P</sup>. The P600 during sentence comprehension relates to explicit memory effects.
- Contier, F.**, Weymar, M., Wartenburger, I., & Rabovsky, M. (in prep.)<sup>P</sup>. No effect of transcutaneous auricular vagus nerve stimulation on the P3 and P600 ERP components.

<sup>P</sup> Preregistered   \* Equal contribution

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## Contributions to Conferences

- Contier, F.**, Höger, M., & Rabovsky, M. (2022, October). The P600 and explicit memory formation. *Poster presented at the 14th annual meeting of the Society of the Neurobiology of Language, Philadelphia, US, October 6-8, 2022.*
- Contier, F.**, Weymar, M., Wartenburger, I., & Rabovsky, M. (2022, October). Phasic norepinephrine release during sentence comprehension? Influence of transcutaneous auricular vagus nerve stimulation on the P600. *Poster presented at the 14th annual meeting of the Society of the Neurobiology of Language, Philadelphia, US, October 6-8, 2022.*
- Contier, F.**, Weymar, M., Wartenburger, I., & Rabovsky, M. (2022, July). The P600 and P3 ERP components are linked to pupil dilation as correlate of norepinephrine activity. *Poster presented at the 47<sup>th</sup> Annual Conference of the Cognitive Science Society, Toronto, Canada, July 27-30, 2022.*
- Contier, F.**, Weymar, M., Wartenburger, I., & Rabovsky, M. (2022, June). The P600 and P3 are linked to noradrenergic activity: Evidence from EEG and pupillometry. *Poster presented at the 47<sup>th</sup> Annual Conference of Psychology and the Brain, Freiburg, Germany, June 16-18, 2022.*
- Contier, F.**, Wartenburger, I., Weymar, M., & Rabovsky, M. (2022, March). Co-registration of EEG and pupil size links the P600 to norepinephrine activity. *Poster presented at Neurobiology of Language - Key Issues and Ways Forward II, hosted by the MPI for Psycholinguistics, virtual, March 16-17, 2022.*

- Schütte, F.**, Wartenburger, I., Weymar, M., & Rabovsky, M. (2021, October). The P600, but not the N400, is modulated by sustained attention. *Short talk held at the 13th annual meeting of the Society of the Neurobiology of Language, virtual, October 5-8, 2021.*
- Schütte, F.**, Wartenburger, I., Weymar, M., & Rabovsky, M. (2021, September). Is the P600 linked to phasic noradrenaline release? Relating ERPs to pupil size in a sentence processing paradigm. *Short talk held at the Architectures and Mechanisms for Language Processing (AMLaP) Conference, Paris, France, September 2-4, 2021.*
- Bleijlevens, N., **Schütte, F.**, & Behne, T. (2021, August-September). Do pragmatic inferences aid word learning in young children and adults? *Poster presented at the 28th Conference of the European Society for Philosophy and Psychology, Leipzig, Germany, August 30 - September 2, 2021.*
- Bleijlevens, N., **Schütte, F.**, & Behne, T. (2021, January). The role of object novelty and pragmatic reasoning in referent selection and retention. *Poster presented at the Budapest CEU Conference on Cognitive Development, Budapest, Hungary, January 4-8, 2021.*
- Schweppe, J., **Schütte, F.**, & Hellfritsch, M. (2020, September). Syntax, morphosyntax, and serial recall: How language supports short-term memory for order. *Talk held at the 10th European Working Memory Symposium, Cardiff University, Cardiff, UK, September 1-3, 2020.*
- Schütte, F.**, Schweppe, J., & Hellfritsch, M. (2020, June). Verbal short-term memory without language processing? The role of syntax and morpho-syntax. *Poster presented at IMPRS Conference, Nijmegen, The Netherlands, June 3-5, 2020.*
- Schütte, F.**, Mani, N., & Behne, T. (2020, January). ‚Now I know who was right before!‘ When learning from others, preschoolers consider subsequent cues of informant reliability. *Poster presented at the Budapest CEU Conference on Cognitive Development, Budapest, Hungary, January 9-11, 2020.*
- Schütte, F.**, Mani, N., & Behne, T. (2019, October). Preschoolers Make Retrospective Inferences in Their Selective Trust Choices. *Poster presented at the Bi-Ennial Conference of the Cognitive Development Society, Louisville, Kentucky, US, October 17-19, 2019.*
- Schütte, F.**, Mani, N., & Behne, T. (2019, September). Retrospective inferences in selective trust. *Talk within the symposium on “Preschoolers selective trust in different contexts”, paEpsy, Leipzig, September 9-12, 2019.*
- Schweppe, J., **Schütte, F.**, Machleb, F. & Rummer, R., (2018, August). Immediate serial recall at the transition from unrelated word lists to sentences. *Poster presented at the 9th European Working Memory Symposium, Pavia, Italy, August 29-31, 2018.*
- Schütte, F.** & De Houwer, A. (2018, May). Production and comprehension of translation equivalents in 24 months old bilingual toddlers: An investigation on the basis of M-CDI and FRAKIS data. *Poster presented at the Harmonious Bilingual Network Colloquium, La Hulpe, Belgium, May 24-26, 2018.*

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## Skills

<b>Methods</b>	EEG, behavioral testing, eye-tracking/pupillometry, language screenings, transcutaneous auricular vagus nerve stimulation
<b>IT</b>	Stimulus presentation: PsychToolBox, E-Prime, Experiment Builder Data processing: EEGLAB & ERPLAB, Infomax ICA, pupillometryR Statistics: SPSS, JASP, lme4/mixed effects models in R Programming languages: R, MATLAB
<b>Languages</b>	German (native), English (fluent), Spanish (Intermediate), Swedish (beginner), German Sign Language (beginner)

## Awards & grants

Travel grant, Potsdam Graduate School (2022)

Paper of the Month, Research Focus Cognitive Sciences, University of Potsdam (2022)

Travel grant, German Association of (Developmental) Psychology (2019)

Erasmus+ stipend for international internships (2017)

Erasmus stipend for semester abroad (2013-14)

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## Further experience

**Ad hoc reviewing**     *Psychological Science, Human Brain Mapping, Journal of Cognitive Neuroscience*

**Teaching**             European University Viadrina Frankfurt (Oder), Germany  
Tutor & teaching assistant (2012-2015)

**Supervision**         *Master's theses:*

Marta Urbaniak (2021, U Potsdam, with Prof. Milena Rabovsky)

Natalie Bleijlevens, Evin Yildirim (2020, U Göttingen, with Dr. Tanya Behne)

*Bachelor's theses:*

Anne Sterzik, Melissa Höger (2022, U Potsdam, with Prof. Milena Rabovsky)

Marie Hellfritsch, Felicitas Schwenzer, Helene Weber (2018, U Erfurt, with Prof. Judith Schweppe)

*Research interns:*

Julia Kirschner (2022)

Melissa Höger (2021-2022)

**Courses**             “Neuromatch Academy: Deep learning track” (2023)

“Summer School on Statistical Methods for Linguistics and Psychology” (Foundational frequentist track), University of Potsdam, Potsdam, Germany (2020)

“Neurocognitive methods in infant and toddler research”, Summer school at Utrecht University, The Netherlands (2019)

“Linear models in R”, Workshop held by Roger Mundry, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany (2019)

“Statistical modeling with R”, bootcamp workshop held by Prof. Stefan Th. Gries, University of Erfurt, Germany (2018)

“Programming with R”, Workshop at the Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands (2017)

“General Psychology I”, “General Psychology II”, “Social Psychology”, “Research Methods”, “Statistics I” from the BA Psychology program at the University of Erfurt, Germany (2016-2017)

**Activities**

Mentee in the Mentoring Plus Program for female PhD candidates and postdocs, University of Potsdam, Germany (Cohort 2021-22)

Mentee in the Dorothea Schlözer Mentoring Program for female PhD candidates and postdocs, University of Göttingen, Germany (Cohort 2020-21)

Board member of the DFG Research training group 2070 “Understanding social relationships” (University of Göttingen) as the elected student representative (2018 - 2020)

Co-founder of the R-Ladies chapter Göttingen (2019)

Co-organization of the contribution of the research training group 2070 to the “Science Goes City” day (2019)

Assistance in organization of the Harmonious Bilingual Network Colloquium, La Hulpe, Belgium (May 24-26, 2018)

Assistance in organization of the third Conference of the German Association of Applied Linguistics (GAL), Frankfurt (Oder) / Stübice, Germany (September 23-25, 2015)

Tutor for cultural studies freshmen, European University Viadrina, Frankfurt (Oder), 2012-2013