

Franziska Christiane Hartung

Penn Center for Neuroaesthetics

Neurology Department, School of Medicine

University of Pennsylvania

✉ fhartung@upenn.edu

🐦 @FranHartung

🌐 storiesandthebrain.com

🌸 osf.io/hg9jj

🆔 ORCID: 0000-0001-5660-2324

Education

- 2012 – 2016 PhD (awarded 2017) in Cognitive Neuroscience, Radboud University, Max Plank Institute (MPI) for Psycholinguistics, IMPRS Graduate School for Language Sciences, Nijmegen
Supervised by Dr. Roel M. Willems, and Prof. Peter Hagoort
Thesis: Getting under your skin: The role of perspective and simulation of experience in narrative comprehension. Available online: <http://bit.ly/2sg3Qul>
- 2006 – 2011 Magister Artium in German Linguistics (Major), General Linguistics and Psychology at Ludwigs-Maximilians University (LMU) of Munich

Employment

- 2016 – Postdoctoral researcher at the Penn Center for Neuroaesthetics & Center for Cognitive Neuroscience, Neurology Department, University of Pennsylvania (A. Chatterjee)
- 2015 Guest lecturer at the Faculty of Humanities, Utrecht University
- 2012 – 2016 PhD student at the Neurobiology of Language Department at the MPI for Psycholinguistics and Donders Institute for Brain, Cognition, and Behaviour (P. Hagoort)
- 2012 Research Assistant at the Department of Cognitive Psychology, VU University Amsterdam (A. Belopolsky)
- 2009 – 2010 Teaching Assistant at the Institute for Theoretical Linguistics, LMU Munich (D. Zaefferer)
- 2009 – 2010 Research Assistant at the Emmy-Noether-Group for Memory Consolidation, LMU Munich (S. Gais)

Journal Articles

Hartung, F., Withers P., Hagoort P. and Willems R. M. (2017). When Fiction Is Just as Real as Fact: No Differences in Reading Behavior between Stories Believed to be Based on True or Fictional Events. *Frontiers in Psychology*, 8:1618, doi: 10.3389/fpsyg.2017.01618

Hartung, F., Hagoort, P., & Willems, R. M. (2017). Readers select a comprehension mode independent of pronoun: Evidence from fMRI during narrative comprehension. *Brain and Language*, 170, 29–38. <http://doi.org/10.1016/j.bandl.2017.03.007>

van den Hoven, E., **Hartung, F.**, Burke, M., & Willems, R. M. (2016). Individual Differences in Sensitivity to Style During Literary Reading: Insights from Eye-Tracking. *Collabra*, 2(1), 25. doi: <http://doi.org/10.1525/collabra.39>

Hartung, F., Burke, M., Hagoort, P., Willems, R. M. (2016). Taking Perspective: Personal Pronouns Affect Experiential Aspects of Literary Reading. *PLoS ONE* 11(5): e0154732. doi: 10.1371/journal.pone.0154732.

Preprints

Hartung, F., Jamrozik, A., Aguirre, G., Rosen, M.E., Sarwer, D.B., Chatterjee, A. (2018, June 20). Behavioural and Neural Responses to Facial Disfigurement. <https://doi.org/10.31234/osf.io/j8v4n>

Klenovsak, D., **Hartung, F.**, Santiago, L., & Zaefferer, D. (2018, January 22). Are Tims hot and Toms not? The effect of sound symbolism on perception of facial attractiveness. <https://psyarxiv.com/9ctq5/>

Willems, R. M., & **Hartung, F.** (2017, June 20). Engaging regularly with fiction influences connectivity in cortical areas for language and mentalizing. <http://bit.ly/2gIAQYW>

Invited Talks

2018 The role of perspective and individual differences for narrative comprehension. Brain, Language and Computation Lab, Pennsylvania State University, State College.

2015 Experimental methods in discourse processing. Workshop at the Methods and Linguistic Theories (MaLT) Symposium, University of Bamberg.

2015 Your mind in story worlds. MPI for Psycholinguistics, Nijmegen.

2015 Aspects of Narratives: What stories can teach us about language comprehension. Colloquium at Radboud University, Grammar and Cognition Group, Nijmegen.

- 2014 Perspective taking in story comprehension. Platform Narratives Meeting, Utrecht University.
- 2014 Perspective taking and mental simulation in narrative comprehension. MPI for Empirical Aesthetics, Language and Literature Department. Frankfurt am Main.
- 2014 Getting under your skin: narrative perspective in story comprehension. Symposium in honor of Professor Winfried Menninghaus, founding director of the new Max Planck Institute of Empirical Aesthetics, Frankfurt (D). MPI for Psycholinguistics, Nijmegen.

Conference Talks

- Hartung, F.** (2019). *Experiencing Stories: Perspective in the mind and in the brain*. Behavioral Insights from Text Conference, Jan 2019, Philadelphia.
- Hartung, F., Hagoort, P., & Willems, R. M.** (2015). *Simulation versus mental imagery: commonalities and differences*. Embodied and Situated Language Processing Conference, 29-30th July 2015, Lyon.
- Hartung, F., Burke, M., Hagoort, P., & Willems, R. M.** (2014). *The embodied reader: The effect of narrative perspective on literature understanding and appreciation*. Meeting of the International Society for the Empirical Study of Literature, 21-25th July, Turin.
- Hartung, F., Burke, M., Hagoort, P., & Willems, R. M.** (2014). *Getting under your Skin: The role of perspective in narrative comprehension*. Cognitive Futures in the Humanities, 2nd International Conference, 24-26th April 2014, Durham.

Conference Posters

- Hartung, F., Jamrozik, A., Aguerre, G., Rosen, M. E., Sarwer, D.B., Chatterjee, A.** (2018). *Increased response to facial attractiveness in visual areas reflects saliency, not reward*. Annual Meeting of the Cognitive Neuroscience Society, 24-27th March 2018, Boston.
- Hartung, F., Hagoort, P., & Willems, R. M.** (2017). *Readers select a comprehension mode independent of pronoun: Evidence from fMRI during narrative comprehension*. Annual Meeting of the Cognitive Neuroscience Society, 25-28th March 2017, San Francisco.
- Hartung, F., Hagoort, P., & Willems, R. M.** (2015). *Simulation and mental imagery of complex events: differences and commonalities*. Annual Meeting of the Society for the Neurobiology of Language, 15-17th October 2015, Chicago.

Hartung, F., Burke, M., Hagoort, P., & Willems, R. M. (2014). *Narrative perspective influences immersion in fiction reading: Evidence from skin conductance response*. Annual Meeting of the Society for the Neurobiology of Language, 27-28th August 2014, Amsterdam.

Hartung, F., Burke, M., Hagoort, P., & Willems, R. M. (2014). *Personal pronouns influence arousal during story comprehension. Embodiment and the reading experience*. Embodied and Situated Language Processing Conference 19-21st August 2014, Rotterdam.

Hartung, F., Klenovsak, D., Santiago dos Santos, L., Strobl, C., Zaefferer, D. (2009). *Are Tims hot and Toms not? Probing the effect of sound symbolism on perception of facial attractiveness*. 31st Annual Conference of the Cognitive Science Society, 29th July-1st August 2009, Amsterdam.

Awards

Postdoctoral fellow award of the Cognitive Neuroscience Society (2017)

Skills

Designing behavioral and neuroimaging experiments for human cognitive psychology.

Designing experiments with naturalistic stimuli.

Advanced technical knowledge for research MRI, including scanning protocols, parameter selection, and experimental equipment.

Software for stimulus presentation (OpenSesame, Presentation, E-Prime, Qualtrics, Redcap).

Data collection, preprocessing, and analysis of functional and structural MRI, behavioral, electrodermal activity, and questionnaire data and online experiments.

Statistical analysis with Matlab, RStudio, SPM, SPSS, JASP. Proficient in frequentist statistics including linear mixed effect models, currently learning Bayesian statistics.

Additional Qualifications

GCP (Good Clinical Practice) license, obtained in NL (2014)

BHV license holder (first aid, fire safety, reanimation, and evacuation training)

Advanced technical qualification for Siemens Tim Trio 3T and Siemens Prisma 3T MRI scanners

Supervision

- 2019 Yuchao Wang (Undergraduate student at Haverford College and Swarthmore College, visiting student at University of Pennsylvania)
- 2018 - Erick Guzman (PhD student at Duquesne University, Clinical Psychology)
- 2016 - 2018 Alexander Coburn (PhD student at Cambridge University, visiting student at University of Pennsylvania)
- 2017 Miriam Esther Rosen (Intern from University of Pittsburgh Medical School)
- 2013 - 2014 Emiel van den Hoven (Research Master *Language and Communication*, School of Humanities, Tilburg University); Thesis: *Effects of Foregrounding on Reading Behavior: An Eye-tracking Study*

Ad hoc reviewer for

Cerebral Cortex; Psychological Science; Scientific Reports; Brain and Language; Language, Cognition, and Neuroscience; Poetics; Scientific Study of Literature; Journal of Neurolinguistics.

Professional Memberships

Society for the Neurobiology of Language
Cognitive Neuroscience Society

Languages

German, English, Dutch