

# Franziska Christiane Hartung, PhD

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## Education

- 2012 – 2016 PhD (awarded 2017) in Cognitive Neuroscience, Radboud University, Max Plank Institute (MPI) for Psycholinguistics, and IMPRS Graduate School for Language Sciences, Nijmegen; Supervised by Dr. Roel M. Willems, and Prof. Peter Hagoort
- 2006 – 2011 Magister Artium in German Linguistics (Major), General Linguistics and Psychology at Ludwigs-Maximilians University (LMU) Munich

## Employment

- 2021-current Lecturer in Cognitive Science at the School of Psychology, Newcastle University, UK
- 2016 – 2020 Postdoctoral researcher at the Penn Center for Neuroaesthetics & Penn Brain Science Center, Department of Neurology, University of Pennsylvania
- 2015 Guest lecturer at the Faculty of Humanities, Utrecht University
- 2012 – 2016 PhD student researcher at the Neurobiology of Language Department at the MPI for Psycholinguistics and Donders Institute for Brain, Cognition, and Behaviour
- 2012 Research Assistant at the Department of Cognitive Psychology, VU University Amsterdam
- 2009 – 2010 Teaching Assistant at the Institute for Theoretical Linguistics, LMU Munich
- 2009 – 2010 Research Assistant at the Emmy-Noether-Group for Memory Consolidation, LMU Munich

## Journal Articles

- Hartung, F.** & Wang, Y., Mak, M., Willems, R. M., & Chatterjee, A. (2021). Aesthetic appraisals of literary style and emotional intensity in narrative engagement are neurally dissociable. *Communications: Biology*, 4: 1401 (2021); doi: 10.1038/s42003-021-02926-0. <https://www.nature.com/articles/s42003-021-02926-0>
- Klooster, N., Humphries, S., Cardillo, E., **Hartung, F.**, Xie, L., Das, S., Yushkevich, P., Pilia, A., Wang, J., Wolk, D. and Chatterjee, A., (In Press). Sensitive measures of cognition in Mild Cognitive Impairment. *Journal of Alzheimer's Disease*.
- Morey, R. D., Kaschak, M. P., Díez-Álamo, A. M., Glenberg, A. M., Zwaan, R. A., Lakens, D., [...], **Hartung, F.**, et al. (in press). A pre-registered, multi-lab non-replication of the Action-sentence Compatibility Effect (ACE). *Psychonomic Bulletin & Review*.

- Workman, C.I., Humphries, S.A., **Hartung, F.**, Aguirre, G.K., Kable, J.W. and Chatterjee, A. (2021), Morality is in the eye of the beholder: the neurocognitive basis of the “anomalous-is-bad” stereotype. *Annals of the New York Academy of Sciences*. <https://doi.org/10.1111/nyas.14575>
- Hartung, F.** & Kenett, Y.N., Cardillo, E.R., Humphries, S. A., Klooster, N., Chatterjee, A. (2020). Context matters: Novel metaphors in supportive and non-supportive contexts. *NeuroImage* (2020-116645). <https://doi.org/10.1016/j.neuroimage.2020.116645>.
- Coburn, A., Vartanian, O., Kenett, Y. N., Nadal, M., **Hartung, F.**, Hayn-Leichsenring, G., Navarrete, G., Mora, J. L. G., Chatterjee, A. (2020). Psychological and Neural Responses to Architectural Interiors. *Cortex*. DOI: 10.1016/j.cortex.2020.01.0
- Hartung, F.**, Jamrozik, A., Aguirre, G., Rosen, M. E., Sarwer, D. B., Chatterjee, A. (2019). Behavioural and Neural Responses to Facial Disfigurement. *Scientific Reports* 9: 8021 (2019). <https://www.nature.com/articles/s41598-019-44408-8>
- 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.

## Book Chapters

- Hartung, F.** (in press). Narrative. Routledge International Handbook of Neuroaesthetics; M. Nadal & M. Skov (eds.)
- Hartung, F.** (2021). The Mark of Villainy: the connection between appearance and perceived morality. *Neuroaesthetics in Focus*; A. Chatterjee & E. Cardillo (editors). Oxford University Press.

## Invited Talks

- 2022 Stories as a window into the mind and the brain. Keynote lecture at the 18<sup>th</sup> IGEL Conference, Orlando.
- 2022 OSF, project management & repositories. Workshop at 2022 IGEL Training School on Open Science, Orlando.
- 2022 The mark of villainy: The Connection Between Appearance and Perceived Morality. Interview for Faculti, <https://faculti.net/the-mark-of-villainy/>
- 2022 Stories as a window into the human mind. Cross-faculty Online Seminar Series on Animal and Human Emotions, Newcastle upon Tyne.
- 2021 The Narrator Project. Behavioural Sciences and Psychology seminar, Newcastle University, Newcastle upon Tyne.
- 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, 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 comprehension. Platform Narratives Meeting, Utrecht University, Utrecht.
- 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 Winfried Menninghaus, founding director of the MPI for Empirical Aesthetics. MPI for Psycholinguistics, Nijmegen.

### Conference Talks

- Hartung, F.**, Ferrier, H. M., Widd, E. J. (2022). The villainization of people with facial anomalies facilitates discriminatory treatment. Talk part of symposium 'At Face Value. The Social Consequences of Facial Aesthetics' (also symposium co-organizer). Biennial Congress of the International Association of Empirical Aesthetics, Philadelphia.
- Hartung, F.**, Cole, E. E., Cunningham, E. A. (2022). "Doctor, Doctor, You're Too Fat!": Weight Bias Towards Overweight Doctors. Biennial Congress of the International Association of Empirical Aesthetics, Philadelphia.
- Hartung, F.** (2019). Experiencing Stories: Perspective in the mind and in the brain. Behavioral Insights from Text Conference, Philadelphia.
- Hartung, F.**, Hagoort, P., & Willems, R. M. (2015). Simulation versus mental imagery: commonalities and differences. Embodied and Situated Language Processing Conference, 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, 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, Durham.

### Conference Posters

- Hartung, F.** & Cross A. (2022). Do skinny product endorsers sell more? Biennial Congress of the International Association of Empirical Aesthetics, Philadelphia.
- Hartung, F.** & Lomax, E. J. (2022). Loosing faces: facial mutilation as punishment for moral transgressions. Biennial Congress of the International Association of Empirical Aesthetics, Philadelphia.
- Hartung, F.**, Coderre, E., Humphries, S.A., Chatterjee, A. (2020). First person perspective facilitates event understanding in patients with lesions in right temporo-parietal junction. Context & Episodic Memory Symposium 2020, Philadelphia.
- Hartung, F.**, Coderre, E., Humphries, S.A., Chatterjee, A. (2020). First person perspective facilitates comprehension in patients with lesions in right temporo-parietal junction. Annual Meeting of the Cognitive Neuroscience Society, online conference.

- Hartung, F.**, Cardillo, E.R., Humphries, S.A., Klooster, N., Chatterjee, A. (2019). Brain activations to metaphor comprehension with and without meaningful context. Annual Meeting of the Cognitive Neuroscience Society, San Francisco.
- 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, 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, 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, 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, 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 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. Annual Conference of the Cognitive Science Society, Amsterdam.

## Awards

- HaSS Pioneer Award for 'The Narrator Project' (2021)  
 HaSS Pioneer Award for 'Bias against obese Healthcare Professionals' with Emer Cunningham (2021)  
 Postdoctoral fellow award of the Cognitive Neuroscience Society (2017)

## Supervision

- 2021 Emer Cunningham and Robyn Metcalfe (Clinical Research Master dissertation project, Newcastle University); Sabrinah Abdulrahman (Clinical Research Master research internship, Newcastle University); Megan Campbell (Bsc hon in Psychology, dissertation project)
- 2019 Yuchao Wang (Bachelor of Arts in *Cognitive Science*, Haverford College)
- 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 in *Language and Communication*, Tilburg University)

## Teaching

- 2021 Cognitive Psychology (UG Psychology, 290 students), Newcastle University  
 History of Psychology focus seminar group, Newcastle University

Enrichment seminar: How to structure the discussion of a research report, Newcastle University

Coevolution of culture and language, Newcastle University

2015 Undergraduate course 'The narrating brain' on the function of stories for culture, mind, brain, emotion; Utrecht University.

2015 Invited 1-day workshop 'Experimental methods in discourse processing' on neuroimaging techniques, and behavioral experiments to investigate cognitive processes underlying natural language; Methods and Linguistic Theories (MaLT) Symposium, University of Bamberg.

## **Skills**

Designing behavioral and neuroimaging experiments for human cognitive psychology. Designing experiments with naturalistic and continuous stimuli.

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

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

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

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

## **Professional service**

Guest editor for the special issue 'Advances in neuroaesthetics: Narratives and art as windows into the mind and brain' (2023) for the Journal for Comparative Literature and Aesthetics with Buddhika Bellana.

Ethics Committee Board Member, Faculty of Medical Sciences, Newcastle University (since 2021).

## **Ad hoc reviewer for**

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

## **Professional Memberships**

British Psychological Society

Cognitive Neuroscience Society

IGEL Society for Empirical Study of Literature (Scientific Advisory Board)

Society for the Neurobiology of Language

**Languages**

German, English, Dutch