Matthias K. Franken

Curriculum Vitae

Date of Birth: 7 September 1989
e-mail: matthias.franken@ugent.be
ORCID: https://orcid.org/0000-0002-6133-8756

Current Position

Post-doctoral researcher (2017 - present) Department of Experimental Psychology Ghent University Henry Dunantlaan 2, 9000 Ghent, Belgium

PI: prof. dr. Rob Hartsuiker

Funding: Ghent University Special Research Fund (BOF)

Education

2013 – 2018	PhD in Cognitive Neuroscience
	Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen,
	The Netherlands
	Defense date: 5 February 2018
	Promotors: prof. dr. Peter Hagoort & prof. dr. James M. McQueen
	Thesis: "Listening for Speaking. Investigations of the relationship between speech
	perception production" (https://repository.ubn.ru.nl/handle/2066/180052)
2011 – 2013	Master of Science in Cognitive Neuroscience
	Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen,
	The Netherlands
	Research internship at Max Planck Institute for Psycholinguistics, Nijmegen, NL
	Research project supervisor: dr. Daniel J. Acheson
	Thesis: "Modulation of speaking-induced suppression in speech imitation"
2008 – 2011	Bachelor of Arts in Linguistics
	Leiden University, Leiden, The Netherlands
	Minors in "Brain & Cognition" and "Amerindian languages"
	Research project supervisor: prof. dr. Niels O. Schiller
	Thesis: "When single-word spelling breaks down: a case study of acquired dysgraphia"

Publications

- **Franken, M. K.**, Hartsuiker, R. J., Johansson, P., Hall, L., & Lind, A. (under review). Does passive sound attenuation affect responses to pitch-shifted auditory feedback?
- **Franken, M. K.**, Acheson, D. J., McQueen, J. M., Hagoort, P., & Eisner, F. (2019). Consistency influences altered auditory feedback processing. Quarterly Journal of Experimental Psychology, (in press), 174702181983893. https://doi.org/10.1177/1747021819838939

- **Franken, M. K.**, Acheson, D. J., McQueen, J. M., Hagoort, P., & Eisner, F. (2018). Opposing and following responses in sensorimotor speech control: Why responses go both ways. Psychonomic Bulletin & Review, 25(4), 1458–1467. https://doi.org/10.3758/s13423-018-1494-x
- **Franken, M. K.**, Eisner, F., Acheson, D. J., McQueen, J. M., Hagoort, P., & Schoffelen, J. (2018). Self-monitoring in the cerebral cortex: Neural responses to small pitch shifts in auditory feedback during speech production. NeuroImage, 179(June), 326–336. https://doi.org/10.1016/j.neuroimage.2018.06.061
- **Franken, M. K.**, Acheson, D. J., McQueen, J. M., Eisner, F., & Hagoort, P. (2017). Individual variability as a window on production-perception interactions in speech motor control. The Journal of the Acoustical Society of America, 142(4), 2007–2018. https://doi.org/10.1121/1.5006899
- **Franken, M. K.**, Eisner, F., Schoffelen, J.-M., Acheson, D. J., Hagoort, P., & McQueen, J. M. (2017). Audiovisual recalibration of vowel categories. In Proceedings of InterSpeech. Stockholm, Sweden.
- **Franken, M. K.**, McQueen, J. M., Hagoort, P., & Acheson, D. J. (2015). Assessing the link between speech perception and production through individual differences. In Proceedings of the 18th Congress of Phonetic Sciences. Glasgow, UK: Glasgow University.
- Franken, M. K., Hagoort, P., & Acheson, D. J. (2015). Modulations of the auditory M100 in an imitation task. Brain and Language, 142, 18–23. https://doi.org/10.1016/j.bandl.2015.01.001
- **Franken, M. K.**, Huizinga, C. S. M., & Schiller, N. O. (2012). De Grafemische Buffer: Aspecten van een Spellingstoornis. Stem-, Spraak- En Taalpathologie, 17(3), 17–36.

Invited Talks

- **Franken, M. K.** (2017). What auditory feedback can teach us about the perception-production link in speech. Talk presented at the Center for Research in Cognition & Neurosciences (CRCN), Université Libre de Bruxelles. Brussels, Belgium. 2017-06-26.
- **Franken, M. K.** (2014). Prediction, feedback and adaptation in speech production. Talk presented at the Leiden University. Leiden, the Netherlands. 2014-11-06.

Conference activity

Talks

- **Franken, M. K.**, Acheson, D. J., McQueen, J. M., Hagoort, P., & Eisner, F. (2018). Opposing and following responses in sensorimotor speech control: Why responses go both ways. Talk presented at Psycholinguistics in Flanders 2018. Ghent, Belgium. 2018-06-04 2018-06-05.
- **Franken, M. K.**, Eisner, F., Schoffelen, J.-M., Acheson, D. J., Hagoort, P., & McQueen, J. M. (2017). Audiovisual recalibration of vowel categories. Talk presented at Psycholinguistics in Flanders 2017. Leuven, Belgium. 2017-05-29 2017-05-30.
- Franken, M. K., Eisner, F., Acheson, D. J., McQueen, J. M., Hagoort, P., & Schoffelen, J.-M.
 (2016). Neural mechanisms underlying auditory feedback processing during speech production.
 Talk presented at the Donders Discussions 2016. Nijmegen, the Netherlands. 2016-11-23 2016-11-24.
- **Franken, M. K.**, McQueen, J. M., Hagoort, P., & Acheson, D. J. (2015). Assessing speech production-perception interactions through individual differences. Talk presented at Psycholinguistics in Flanders. Marche-en-Famenne. 2015-05-21 2015-05-22.

- **Franken, M. K.**, Hagoort, P., & Acheson, D. J. (2014). Prediction, feedback and adaptation in speech imitation. Talk presented at the Donders Discussions 2014. Nijmegen, Netherlands. 2014-10-30 - 2014-10-31.

Posters

- **Franken, M. K.**, Hartsuiker, R. J., Johansson, P., Hall, L., & Lind, A. (2019). Sense of agency is flexible during speech production with altered auditory feedback. Poster to be presented at the 25th Architectures and Mechanisms of Language Processing Conference (AMLaP), Moscow, Russia. 2019-09-06 2019-09-08.
- **Franken, M. K.**, Hartsuiker, R. J., Johansson, P., Hall, L., & Lind, A. (2019). The effect of passive sound attenuation in an altered auditory feedback paradigm. Poster presented at the 26th annual meeting of the Cognitive Neuroscience Society (CNS 2019), San Francisco, CA, USA. 2019-03-23 2019-03-26.
- **Franken, M. K.**, Acheson, D. J., McQueen, J. M., Hagoort, P., & Eisner, F. (2018). Opposing and following responses in sensorimotor speech control: Why responses go both ways. Poster presented at the International Workshop on Language Production (IWLP 2018), Nijmegen, The Netherlands.
- Dubinkina, N., Sijyeniyo, E., Broos, W., **Franken, M. K.**, Foucart, A., & Hartsuiker, R. J., Mindwandering states during bilingual reading. Poster presented at Psycholinguistics in Flanders 2018. Ghent, Belgium. 2018-06-04 2018-06-05.
- **Franken, M. K.**, Schoffelen, J.-M., McQueen, J. M., Acheson, D. J., Hagoort, P., & Eisner, F. (2016). Neural correlates of auditory feedback processing during speech production. Poster presented at New Sounds 2016: 8th International Conference on Second-Language Speech, Aarhus, Denmark.
- **Franken, M. K.**, Eisner, F., Acheson, D. J., McQueen, J. M., Hagoort, P., & Schoffelen, J.-M. (2016). Neural mechanisms underlying auditory feedback processing during speech production. Poster presented at the Eighth Annual Meeting of the Society for the Neurobiology of Language (SNL 2016), London, UK.
- **Franken, M. K.**, Eisner, F., McQueen, J. M., Hagoort, P., & Acheson, D. J. (2015). Following and Opposing Responses to Perturbed Auditory Feedback. Poster presented at Society for the Neurobiology of Language Annual Meeting 2015, Chicago, IL.
- **Franken, M. K.**, McQueen, J. M., Hagoort, P., & Acheson, D. J. (2015). Assessing the link between speech perception and production through individual differences. Poster presented at International Congress of Phonetic Sciences, Glasgow, UK.
- **Franken, M. K.**, McQueen, J. M., Hagoort, P., & Acheson, D. J. (2015). Effects of auditory feedback consistency on vowel production. Poster presented at Psycholinguistics in Flanders, Marche-en-Famenne.
- **Franken, M. K.**, Hagoort, P., & Acheson, D. J. (2014). Prediction, feedback and adaptation in speech imitation: An MEG investigation. Poster presented at the International Workshop on Language Production, Université de Genève, Geneva, Switzerland.
- **Franken, M. K.**, McQueen, J. M., Hagoort, P., & Acheson, D. J. (2014). Assessing the link between speech perception and production through individual differences. Poster presented at the 6th Annual Meeting of the Society for the Neurobiology of Language, Amsterdam.

- **Franken, M. K.**, Acheson, D. J., & Hagoort, P. (2013). Modulations of speaking-induced suppression in speech imitation. Poster presented at the 5th Annual Meeting of the Society for Neurobiology of Language (SNL 2013), San Diego, CA, USA.

Teaching experience

2018 - 2019	Co-lecturer in the course "Language Psychology" of the master's programme in
	psychology at Ghent University, 2018, 2019
2017 - 2018	Guest lecture in the course "Cognitive psychology" of the master's programme in
	psychology at Ghent University, 2017, 2018
2016 – 2017	Teaching assistant in the Donders Toolkit in Advanced EEG/MEG analyses (2016,
	2017).
2014 - 2017	Organizing and teaching the two-day workshop "Programming in Presentation" at the
	Donders institute for Brain, Cognition and Behaviour (7 workshops over the period
	2014-2017)

Funding & Awards

2015	"Gösta Bruce scholarship" by the Gösta Bruce Memorial Fund and the International
	Phonetic Association (2015)
2014	"Research Talent" grant for PhD research, project 406-13-014 (Dutch Research
	Council, NOW, 2014-2017)

Public Outreach

2018	Contribution to the online Q&A website www.ikhebeenvraag.be [in Dutch], where public questions are answered by scientists associated with a Flemish research institution
2016	Participation and demo at the 2016 edition of the DRONGO language festival in Utrecht, the Netherlands
2015	Contribution "How do we form the sounds of speech" to the online Q&A of the Max Planck Institute for Psycholinguistics (https://www.mpi.nl/news-events/questions-and-answers).
2013 – 2017	Contributions to the blog of the Neurobiology of Language department [Dutch] (Donders Instute for Brain, Cognition and Behaviour & Max Planck Institute for Psycholinguistics): www.hettaligebrein.nl

Additional

- **Reviews** for The Journal of the Acoustical Society of America, Brain and Language, Frontiers in Human Neuroscience
- **Programming skills**: MATLAB, R, Praat Software, Presentation (Neurobehavioral Systems), Fieldtrip Toolbox for MEG/EEG analyses, PureData, SPSS, Python
- Other software skills: LaTeX, Adobe Photoshop/Illustrator/InDesign

-	Board Member of the student-run journal "Proceedings of the Master's programme Cognitive Neuroscience" (2011-2013)