Xiaochen Zheng | 郑晓辰

Donders Institute for Brain, Cognition and Behaviour, Radboud University xiaochen.zheng@donders.ru.nl

Employment

Postdoctoral researcher, Donders Center for Cognitive Neuroimaging, Radboud University

The Netherlands

Coordinating postdoc, Dutch research consortium "Language in Interaction"

Nov. 2019- Pres.
The Netherlands

Predoctoral researcher, Donders Center for Cognition, Radboud University

Nov. 2019- Pres.
The Netherlands

Sep. 2015-Aug. 2019

Education

Donders Graduate School for Cognitive Neuroscience &

The Netherlands

International Max Plank Research School for Language Science

Sep. 2015-Aug.2019.

Ph.D in Cognitive Neuroscience

supervised by Prof. dr. Ardi Roelofs & Dr. Kristin Lemhöfer

Tilburg University & Radboud University

The Netherlands

Research Master in Language and Communication (Highest distinction, top 5%)

Sep. 2013-Aug. 2015

Beijing Normal University

Beijing, China

B.S. in Psychology (GPA: 88.6/100)

Sep.2007-Jul.2011

Publications

- **Zheng, X.,** Cools, R., & Garvert, M. M. (in prep). Parallel cognitive maps for statistical and semantic relationships in the hippocampal formation.
- **Zheng, X.** & Piai, V. (Submitted). Neural oscillations of interference control in the aging brain: evidence from pictureword interference.
- Chupina, I., Sierpowska, J., **Zheng, X.,** Dewenter, A., Piastra, M. C., & Piai, V. (Submitted). Right-hemisphere compensation during word production: A single case of left-hemisphere young stroke. [PsyArXiv]
- Hustá, C., **Zheng, X.,** Papoutsi, C., & Piai, V. (2021). Electrophysiological signatures of conceptual and lexical retrieval from semantic memory. *Neuropsychologia*, 107988. [DOI] [data]
- Piai, V., De Witte, E., Sierpowska, J., **Zheng, X.,** Hinkley, L. B., Mizuiri, D., ... & Nagarajan, S. S. (2020). Language neuroplasticity in brain tumor patients revealed by magnetoencephalography. *Journal of Cognitive Neuroscience*, 32(8), 1497-1507. [Open Access]
- **Zheng, X.** (2020). Control and monitoring in bilingual speech production: language selection, switching and intrusion. (Doctoral dissertation, Radboud University, Nijmegen, The Netherlands). [Open Access]
- **Zheng, X.,** Roelofs, A., Erkan, H., & Lemhöfer, K. (2020). Dynamics of inhibitory control during bilingual speech *production*: An electrophysiological study. *Neuropsychologia*, *140*, 107387. [DOI] [data]
- Piai, V. & **Zheng, X.** (2019). Speaking waves: neuronal oscillations in language production. Book chapter for *The Psychology of Learning and Motivation* (Vol. 71, pp. 265-302). Academic Press. [DOI]
- Zheng, X., Roelofs, A., & Lemhöfer, K. (2019). Language selection contributes to intrusion errors in speaking:

- Evidence from picture naming. Bilingualism: Language and Cognition, 23(4), 788-800. [Open Access] [data]
- **Zheng, X.** & Lemhöfer, K. (2019). The "semantic P600" in second language processing: When syntax conflicts with semantics. *Neuropsychologia*, 127, 131-147. [Open Access] [data]
- **Zheng, X.,** Roelofs, A., Farquhar, J., & Lemhofer, K. (2018). Monitoring language selection errors in switching: Not all about conflict. *PLoS ONE*, 13, e0200397. [Open Access] [data]
- **Zheng, X.,** Roelofs, A., & Lemhöfer, K. (2018). Language selection errors in switching: Language priming or cognitive Control? *Language, Cognition and Neuroscience*, 33, 139-147. [Open Access] [data]

Conference Presentations

- **Zheng, X.** & Piai, V. (2021). *Neural oscillations of interference control in the aging brain: evidence from picture-word interference*. Short talk presentation at the International Workshop on Language Production. Virtual meeting.
- **Zheng, X.,** Roelofs, A., Erkan, H., & Lemhöfer, K. (2019). *The N2 changes during switching but not repetition of language in bilingual picture naming*. Poster presentation at the Organization for Human Brain Mapping (OHBM) Annual Meeting, Rome, Italy.
- **Zheng, X.** (2018). *Error monitoring and language control*. Oral presentation at FutureUp! BMI & Partners Annual PhD Students Neuroscience Symposium, Lausanne, Switzerland.
- **Zheng, X.,** Roelofs, A., Farquhar, J & Lemhöfer, K. (2018). *Monitoring of language selection errors in switching: Not all about conflict.* Poster presentation at the 10th International workshop on language production, Nijmegen, The Netherlands.
- **Zheng, X.,** Roelofs, A., Witte, K., & Lemhöfer, K. (2018). *Involuntary Switching and Language Control: In Search for a New Paradigm, or Two*. Poster presentation at the Interdisciplinary Approaches in the Language Sciences Conference, Nijmegen, The Netherlands.
- **Zheng, X.,** Roelofs, A., Farquhar, J., & Lemhöfer, K. (2017). *Error Monitoring in Language Switching: All about Conflict?* Poster presentation at the Annual Meeting of Psychonomic Society, Vancouver, Canada.
- **Zheng, X.,** Roelofs, A., Farquhar, J., & Lemhöfer, K. (2017). *Monitoring Language Selection Errors in Switching: All about Conflict?* Oral presentation at the Conference on Multilingualism, Groningen, The Netherlands.
- **Zheng, X.,** Roelofs, A., & Lemhöfer, K. (2016). *Language selection errors in switching: enhancement or inhibition?* Poster presentation at the Conference on Multilingualism, Ghent, Belgium.
- **Zheng, X., &** Lemhöfer, K. (2015). "The mouse that chased the cat": reversed anomalies in second language processing. Poster presentation at the NVP Winter Conference on Cognition, Brain, and Behaviour, Egmond aan Zee, the Netherlands.
- **Zheng, X.,** & Lemhöfer, K. (2015). "Semantic P600" in second language processing: when syntax conflicts with semantics. Oral presentation at the 19th Conference of the European Society for Cognitive Psychology (ESCOP), Paphos, Cyprus.
- **Zheng, X.,** Krahmer, E., Goudbeek, M., & Cozijn, R. (2015). What we see tells what we say: combining eye movement and reference production. Poster presentation at the 12th International Symposium of Psycholinguistics, Valencia, Spain.
- **Zheng, X.** & Lemhöfer, K. (2015). *Shallow processing in L2 comprehension: An EEG study in German-Dutch Bilinguals*. Oral presentation at Psycholinguistics in Flanders conference, Marche-en-Famenne, Belgium.

Invited Talks

Coffee OF tea: the neural mechanism of cognitive control in bilingual switching. Psychology Seminars. School of Biological and Behavioural Sciences, Queen Mary University of London, United Kingdom. October 2021.

The neural mechanism of cognitive control in language production, International Young Scholars Forum. School of Psychology, Northwest Normal University, Gansu, China. June 2021.

Supervision Experience

PhD student

- Elena Mainetto (Radboud University)

co-supervised with Prof. Roshan Cools and Dr. Hanneke den Ouden

2020 - pres

Master students:

- Thesis projects:
 - Nora Kennis (Radboud University)
 co-supervised with Dr. Vitória Piai and Dr. Angela de Bruin

2021-pres

• Jonne Roelofs (Radboud University)

2021

Cecilia Husta (University of Groningen)
 co-supervised with Dr. Vitória Piai

2019

- **Internship**: Hasan Erkan (*Radboud University*), Anne Billot (*Pierre-and-Marie-Curie University*, *France, co-supervised with Dr. Vitória Piai*), Julia Egger (*Radboud University*)

Bachelor students:

- Thesis projects (all Radboud University): Max Sterling, Rick Alofs, Elena Nicolaou, Daniel Holthuis
- **Honours project** (all Radboud University): Kristin Witte (co-supervised with Dr. Kristin Lemhöfer), Puck Lange, Lada Zelinski, Lara Burmeister (co-supervised with Syanah Wynn and Dr. Dennis Schutter)

Teaching Experience

Lecturer/Tutor, Bachelor's Program in Psychology, Radboud University

2016-2018

- General introduction to Psychology
- Brain and Cognition
- Research Project 3: Brain & Cognition

Tutor. Donders Institute for Brain, Cognition and Behaviour

2019, 2020

- Tool-kit of Cognitive Neuroscience: Advanced Analysis and Source Modelling of EEG and MEG Data

Scholarships & Awards

4-year PhD grant, DCC internal round (co-applicant), Donders Centre for Cognition, Radboud University

2015

Scholarship for Academic Excellence, Tilburg University (\notin 26,000)

2014, 2013

KNAW Research Assistants Program, Tilburg School of Humanities ($\sim 67,000$)

2014

Academic Scholarship, Beijing Normal University (CNY 1300 = $\sim \epsilon$ 170)

2010, 2009

Travel grants & Funding's

Travel grant by Erasmus+ Staff Mobility for Training, to Basque Center on Cognition, Brain, and Language, San Sebastian, Spain (about € 800)	2019
Radboud Internationalisation travel grant for outgoing PhD to Rome, Italy (the Organization of Human Brain Mapping, € 800)	2019
Travel grant by École polytechnique fédérale de Lausanne (EPFL) to Lausanne, Switzerland (about € 1000)	2018
Travel grant by Erasmus+ Staff Mobility for Training, to Technical University of Munich, Munich, Germany (about € 600)	2018
Radboud Internationalisation travel grant for outgoing PhD to Vancouver, Canada (Psychonomic Society Annual Meeting, € 1400)	2017
Scientific Research and Business Operations of College Students, Beijing (CNY 10,000 = ~€ 1,300)	2009
Undergraduate Research Fund, Beijing Normal University (CNY 1,500 = ~€ 200)	2008

Training

Human Brain Project (HBP) Curriculum: cognitive system for non-specialists, Technical University of	2018
Munich (Germany)	
Donders (f)MRI Tool-kit: From image acquisition to computation model, Donders Institute (The	2018
Netherlands)	
Workshop on Bayesian analysis with JASP, International Max Planck Research School (The	2017
Netherlands)	
Tool-kits of Cognitive Neuroscience, Advanced analysis and source modelling of EEG and MEG data,	2016
Donders Institute (The Netherlands)	
Psychophysics Toolbox Workshop, University Medical Centre Hamburg Eppendorf (Germany)	2014

Research Skills

Research Methods EEG/MEG, (f)MRI, Eye-tracking, Experiment design

Programming Matlab, Python, R

Software Packages Fieldtrip, Neurobs Presentation, PsychoPy, SPSS, JASP

Languages Chinese (native in Mandarin and Wu), English (working proficiency), Dutch (CEFR C1)

Other Professional (and non-professional) Activities

Ad-hoc Reviewer. Brain and Language; Journal of Experimental Psychology: General; Journal of 2018-pres.
 Experimental Psychology: Learning, Memory and Cognition; Neuropsychologia; eNeuro; Lingua; International Journal of Bilingualism; PeerJ; Psychological Research; Applied Psycholinguistics;

Frontiers in Human Neuroscience; Journal of Cognitive Psychology

See my **Publons** for more details.

Team Member. Donders Research Data Repository project.	2016-2017
Organizing Committee Member. Donders Inclusion Seminar.	2021-pres
Organizing Committee Member. The Donders Discussions - International PhD conference on Cognition and	2016
Neuroscience (Nijmegen, The Netherlands)	
Student Assistant. Tilburg School of Humanities and Digital Sciences (Tilburg University, The Netherlands)	2014-2015
Invited Panellist. Annual neuroscience symposium Synapsium (Radboud University, The Netherlands)	2021
Contract Translator. Zheng, X., Zhang, L., & Jiang, W. (2016). Health psychology. China Light Industry	2014
Press. Beijing, China. (Original copy: Brannon, L., Feist, J., & Updegraff, J. (2013). Health psychology:	
An introduction to behaviour and health. United States: Cengage Learning.)	
Bronze Winner. "Challenge Cup" Capital College Students Business Plan Competition (Beijing, China)	2010
Member of Excellent Volunteer Group. Junior Achievement (JA) China	2010
Volunteer. Beijing Western Sunshine Rural Development Foundation (China)	2010
Excellent Volunteer. 2008 Summer Olympic Games (Beijing, China)	2008

References

Prof. dr. Roshan Cools

Supervisor of the postdoctoral projects

Donders Centre for Cognitive Neuroimaging, Radboud University

Email: roshan.cools@donders.ru.nl

Prof. dr. Ardi Roelofs

Promotor and supervisor of the PhD project

Donders Centre for Cognition, Radboud University

Email: a.roelofs@donders.ru.nl

Dr. Vitória Piai

Collaborator and supervisor of side projects

Donders Centre for Cognition, Radboud University/ Donders Centre for Medical Neuroscience, Radboudumc

Email: v.piai@donders.ru.nl