

July 29, 2025

## **CURRICULUM VITAE**

### **BRIGITTE RÖDER**

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Birth date: April 12, 1967 in Hermeskeil (Germany)

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## **EDUCATION**

- 2002: Habilitation, Psychology; Philipps-University Marburg (Germany)  
1995: Dr. rer. nat. (Ph.D. equivalent), Psychology; Philipps-University Marburg (Germany)  
1991: Diplom, Psychology; Philipps-University Marburg (Germany)  
1986: Abitur; Staatliches Gymnasium Hermeskeil (Germany)

## **ACADEMIC APPOINTMENTS**

- 2023-pres.: Visiting Scholar LV Prasad Eye Institute, Hyderabad (India)  
2010-pres.: Full professor (W3), Biological Psychology and Neuropsychology, University of Hamburg  
2004-pres.: Adjunct Professor at the Faculty of Medicine Hamburg-Eppendorf.  
2003-2010: Full professor (C4), Biological Psychology and Neuropsychology, University of Hamburg  
2000-2003: Emmy Noether-fellow (German Research Foundation); head of a junior research group at the Psychology Department of the Philipps-University Marburg (Germany)  
1997-2000: Research and Teaching Associate (F. Rösler); Psychology Department, Philipps-University Marburg (Germany)  
1995-1997: Postdoc; Department of Psychology and Neuroscience (H.J. Neville); University of Oregon, Eugene (U.S.)  
1993: Visiting Scholar in the Cognitive Psychophysiology-Laboratory (M.G.H. Coles); University of Illinois, Urbana-Champaign (U.S.)  
1991-1995: PhD candidate, Research and Teaching Associate (F. Rösler); Psychology Department, Philipps-University Marburg (Germany)  
1989-1991: Student Research Assistant (F. Rösler); Behavioral and event-related potential studies in long-term memory and mental imagery; Psychology Department, Philipps-University Marburg (Germany)  
1987-1989: Student Research Assistant (H.H. Schulze); Studies in haptic perception and design of tactile displays for the blind; Psychology Department, Philipps-University Marburg (Germany)  
1986-1991: Studies of Psychology, Philipps-University Marburg (Germany)

## **OTHER PROFESSIONAL ACTIVITIES**

- since 2024: President of the Hector Fellow Academy  
since 2023: Member of the board of directors of the Altonaer Foundation  
since 2022: Member of the presidential committee of the Hector Fellow Academy  
since 2021: Member of the board of directors of the Hamburg Center of Neuroscience  
since 2020: Member of the pre-selection committee for the Hector Award

- since 2019: Member of the senate of the German Research Foundation (DFG)
- since 2019: Member of the preselection committee for science awards at the University of Hamburg
- since 2018: Chair of the board for graduation of the Psychology Department at the University of Hamburg
- since 2014: Member of the faculty board of the Faculty of Psychology and Human Movement Science at the University of Hamburg
- 2021-2024: Member of the scientific board of the Leibniz Institute for Neurobiology (Magdeburg, Germany)
- 2018-2024: Member of the selection committee of the Academy of Science in Hamburg
- 2015-2024: Member of Committee for Life Sciences of the German National Academy of Sciences Leopoldina
- 2020-2023: Member of the Excellence Advisory Board of the University of Hamburg
- 2017-2022: Member of the scientific advisory board at the Max Planck Institute for Empirical Aesthetics, Frankfurt/M.
- 2016-2022: Member of the board of directors of the Transregio German-Chinese Collaborative Research Centre TRR 169
- 2021: Chair of the presidential evaluation committee of the Psychology department of the Technical University Dresden (Germany)
- 2020: Jury member for the Joachim Jungius award 2020 of the Jungius Society and the Academy of Science Hamburg
- 2020, 2015: Jury member for the Ernest-John Solvay Prize, Research Foundation - Flanders (FWO), Belgium
- 2017: Member of the Review board SH4 for consolidator grants of the European Research Council (ERC)
- 2016-2019: Member of the review board (Psychology: 110) of the German Research Foundation (DFG)
- 2015-2019: Member of the Committee for International Affairs at the University of Hamburg
- 2014-2018: Member of the Governors of the German-Israeli Foundation for Scientific Research and Development (GIF)
- 2012-2017: Regional representative of the German/Austrian constituency of the International Neuropsychology Symposium (INS)
- 2016-2017: Member of the founding committee for a Center for Advanced Studies (University of Hamburg, Academy of Sciences in Hamburg)
- 02/2014-09/15: Dean of the Faculty of Psychology and Human Movement Science at the University of Hamburg
- 11/2013-03/2014: Founding dean of the Faculty of Psychology and Human Movement Science at the University of Hamburg
- 2013-2015: Member of the selection committee (postdoc and research fellows) of the Alexander von Humboldt Foundation
- 2013-2015: Science Europe, Member of the Committee for the Social Sciences
- 2009-2016: Contact person at the University of Hamburg for the German Psychological Society

- 2012-2014: Member of the commission for “European science policy” of the German Rectors’ Conference
- 2011-2014: Member of the board of directors of the Collaborative Research Centre SFB 936
- 2011-2014: Member of the faculty board of the Psychology Department, University Hamburg
- 2008-2009: Dean of the Psychology Department at the University of Hamburg.
- 2007-2008: Vice Dean of the Psychology Department at the University of Hamburg
- 2005-2011: Member of the faculty board of the faculty of Education, Psychology and Human Movement, University Hamburg
- 2005-2009: Member of the board of directors of the research focus Neuroscience at the University of Hamburg
- 2005-2008: Member of the board of directors of Neurolmage Nord (University of Hamburg, Kiel and Lübeck)
- 2004-2011: Vice chairperson of the board for graduation of the Psychology Department at the University of Hamburg
- 2004-2009: Member of the board for the admission of foreign students; Psychology Department of the University of Hamburg
- 1998: Member of the McDonnell Summer Institute in Cognitive Neuroscience, Olympic Valley, CA (U.S.)
- 1997: Member of the McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth Medical School, Hanover (U.S.)
- 1995: Member of the Summer School on Methods in Physiological Psychology; Ruhr-University Bochum and Heinrich-Heine University Düsseldorf (Germany)
- 1994: Member of the European Summer School on Cognitive Neuroscience, Nijmegen (The Netherlands)

## HONORS AND AWARDS

- 2023: Visiting Scholar LV Prasad Eye Institute, Hyderabad (India)
- 2021: Henriette Herz Scout of the Alexander von Humboldt Foundation
- 2020: Wilhelm Wundt Medal of the German Psychological Society (DGPs)
- 2018: Fellow of the Hector Academy
- 2017: Hector Science Award of the Hector Foundation
- 2014: Gottfried Wilhelm Leibniz-Award (German Research Foundation, DFG)
- 2011: Fellow of the Association for Psychological Science (APS)
- 2011: Teaching award of the Dep. of Psychology at the University of Hamburg
- 2010: ERC Advanced Investigators Grant
- 2010: Listed in AcademiaNet.de
- 2010: Member of the International Neuropsychological Symposium (INS)
- 2009: Selected for the training program of the Helmholtz Academy
- 2008: Member of the German National Academy of Sciences Leopoldina
- 2007: Member of the Academy of Science in Hamburg

- 2005: Member of the Wilhelm-Wundt Society (WWG)
- 2002: Award for Biology of the Science Academy Göttingen
- 2000: Publication Award of the Biological Psychology section of the German Psychological Society
- 2000: Young Scientist Award of the Federation of the European Societies for Psychophysiology
- 1996: Heinz-Heckhausen Dissertation award of the German Psychological Society (DGPs)

## CURRENT GRANTS

- 2025-2028: Hector Fellow Academy "Visual perceptual learning after a transient phase of congenital blindness", PI: Brigitte Röder, Project grant: 208.750 €.
- 2023-2027: Hector Fellow Academy "The role of early visual experience for the neural systems processing visual objects", PI: Brigitte Röder, Project grant: 275.400 €.
- 2018-2027: University Fellow of the Max Planck School of Cognition (including ≈ 215.000 € for a PhD candidate)
- 2015-2027: German Research Foundation (DFG: Ro 2625/10-1). Leibniz Award. Total Grant 2.5 Mill. €.

## PAST GRANTS

- 2023-2024: German Research Foundation (DFG, TRR 169 Transregio "Crossmodal Learning", A1): Adaptation of multisensory processing to changing priors and sensory evidence. PIs: Patrick Bruns and Brigitte Röder (University of Hamburg), Xiaolan Fu (Chinese Academy of Sciences, Beijing). Project grant: 2 PhD positions (65%) + ≈ 5000 €.
- 2020-2024: EU project "The Crossmodal Brain" (Horizon 2020 MSCA ITN: Dr. Aline de Borst). 162.806 €.
- 2020-2023: German Research Foundation (DFG, TRR 169 Transregio "Crossmodal Learning", A1): Adaptation of multisensory processing to changing priors and sensory evidence. PIs: Patrick Bruns and Brigitte Röder (University of Hamburg), Xiaolan Fu (Chinese Academy of Sciences, Beijing). Project grant: 363.560 €.
- 2020-06/2024: Free and Hanseatic City of Hamburg (LFF-FV 73, "Pregnancy, immunology, health risks in mother and child", Speaker: Prof. Dr. Petra Arck). Subproject: „Modulation and immunological and neuronal mechanisms of fetal programming of neurocognitive performance“. PI: Prof. Dr. Brigitte Röder. Project grant: 44.630 €.
- 2020-2023: Free and Hanseatic City of Hamburg (LFF-FV 76, "Mechanisms regulating excitation and inhibition in the learning and diseased brain", Speaker: Prof.

- Dr. Matthias Kneussel). Subproject: „Changes of the excitatory/inhibitory balance during human brain development“. PI: Prof. Dr. Brigitte Röder. Project grant: ca 175.000 €.
- 2019-2023: German Research Foundation (DFG; Research Center SFB 936 “Multisite communication in the brain”; B11): Development of bottom-up and top-down communication in visual and multisensory cortical networks in humans PI: Brigitte Röder. Project grant: 319.200 €.
- 2018-2022: Funding of a PhD position (65%) by the Hector Fellow Academy: 209.927 € (01.10.2018-30.09.2022).
- 2018: EU FP7 post-grant Open Access Pilot. Grant: 4800 €.
- 2017-2020: German-Chinese Alumni Network Neuroscience (co-applicant, main PI: Prof. Dr. Frank Bremmer, Philipps University Marburg)
- 2016-2019: German Research Foundation (DFG, TRR 169 Transregio “Crossmodal Learning”, A1): Dynamic adaptation of multisensory processes by cross-modal recalibration. PIs: Brigitte Röder (University of Hamburg) and Bo Hong (Tsinghua University, Beijing). Project grant: 446.000€.
- 2016-2018: Human Brain Project (EU GA 720270). Project grant: 333.540 €.
- 2015-2019: German Research Foundation (DFG; Research Center SFB 936 “Multisite communication in the brain”; B1): Tactile-visual interactions for saccade planning during free viewing and their modulation by TMS. PIs: Tobias Heed and Brigitte Röder. Project grant: 300.000 €.
- 2015-2018: City of Hamburg excellence program: “Crossmodal learning”. (PIs: Jianwei Zhang, Stefan Wermter, Andreas Engel, Brigitte Röder). Project grant approximately: 280.000 €.
- 2014-2017: EU. “Audio Bracelet for Blind Interaction” (Coordinator: Monica Gori, Italian Institute of Technology, Genua). Project grant: 300.000 €.
- 2013-2015: German Research Foundation (DFG: Ro 2625/12-1). Initiation and enhancement of international cooperation “Recovery of visual and multisensory functions after visual deprivation in humans”. (PI: Brigitte Röder). Project grant: 17.890 €.
- 2011-2012: German National Academy of Sciences Leopoldina. Initiative „Neurobiological and psychological factors of socialization: Consequences for economy and education“. PIs: Frank Rösler, Brigitte Röder. Total grant: 100.000 €.
- 2011-2015: German Research Foundation (DFG; Research Center SFB 936 “Multisite communication in the brain”; B2): Changes of large-scale interactions as a mechanism of adaptive plasticity. PIs: Brigitte Röder and Andreas Engel. Project grant: 357.400 €.
- 2011-2015: German Research Foundation (DFG; Research Center SFB 936 “Multisite communication in the brain”; B1): Role of vision for shaping cortico-cortical interactions mediating sensorimotor transformations. PIs: Tobias Heed and Brigitte Röder. Project grant: 177.600 €.
- 2010-2016: European Research Council Advanced investigators grant (ERC-2009-AdG 249425-CriticalBrainChanges). “Development and plasticity of multisensory

- functions to study the principles of age dependent learning plasticity in humans". Total grant: 2.396.640 €.
- 2010-2016: German Research Foundation (DFG: GK 1247/2) German-Chinese Graduate Student Training Program; Crossmodal Interaction in Natural and Artificial Cognitive Systems (CINACS, PIs: Jianwei Zhang (spokesperson), Brigitte Röder, Christian Büchel, Andreas Engel, Christopher Habel, Wolfgang Menzel, Brigitte Röder, 8 professors of Tsinghua University, Beijing). Total grant (German side): 2.412.652 €, Project grant: 220.000 €.
- 2010-2013: EU collaborative grant: COST project TIMELY: Time In Mental activity (PI: Argiro Vataki, an 20 co-investigators among them Brigitte Röder). Total grant: 210.000 €.
- 2009-2012: German Research Foundation (DFG GU 227/11-1): The role of interhemispheric transfer and cerebral asymmetry for multisensory perception: (PI: Onur Güntürkün, Coinvestigator: Brigitte Röder). Project grant: 113.000€.
- 2009-2012: EU collaborative grant: NOMS:Nano-Optical Mechanical Systems (project part of Brigitte Röder) Project grant: 268.700 €.
- 2009-2012: German Research Foundation (DFG FR 2519/1-2): Multisensory plasticity of neuronal word form representations: (PIs: Claudia Friedrich, Brigitte Röder). Total grant: 212.000 €.
- 2009-2010: BWF Hamburg-excellence initiative: Cluster Neuroadapt! (PIs: Christian Büchel, Brigitte Röder, 14 further investigators). Total grant: 1.843.585 €; project grant: 115.224 €.
- 2009-2010: German Research Foundation (DFG HO 3924/1-2): Exercise and neural plasticity in humans (PIs: Kirsten Höttig, Brigitte Röder). Total grant: 47.600 €.
- 2008-2011: German Research Foundation (DFG; Research Center SFB 538; E7 Multilingualism): Critical periods for the acquisition of German and of German Sign Language: Is being multilingual of any advantage? PIs: Brigitte Röder and Barbara Hänel-Faulhaber. Project grant: 379.700 €.
- 2007-2008: BMBF (01GJ0610): Neural foundation of bilingual education in hearing impaired children (PIs: Claudia Friedrich, Barbara Hänel, Brigitte Röder). Total grant: 81.096 €.
- 2006-2010: German Research Foundation (DFG: GK 1247/1) German-Chinese Graduate Student Training Program; Crossmodal Interaction in Natural and Artificial Cognitive Systems (CINACS, PIs: Jianwei Zhang (spokesperson), Brigitte Röder (spokesperson Hamburg) Christian Büchel, Andreas Engel, Christopher Habel, Wolfgang Menzel, Brigitte Röder, 8 professors of Tsinghua University, Beijing). Total grant (German side): 1.956.251 € (Project grant: 250.000 €).
- 2006-2009: German Research Foundation (DFG HO 3924/1-1): Exercise and neural plasticity in humans (PIs: Kirsten Höttig, Brigitte Röder). Total grant: 184.000 €.
- 2005-2011: BMBF (0606/101): Whole head MEG system (PIs: Andreas Engel, Christian

- Büchel, Malte Clausen, Günther Deuschl, Detlef Kömpf, Dieter Naber, Brigitte Röder, Manfred Westphal, Hermann Zeumer). Total grant: 2.000.000 €.
- 2005-2008: BMBF (01GW0561): Plasticity and reorganization of object processing in the human brain (PIs: Brigitte Röder, Christian Büchel, Andreas Engel, Hartwig Siebner) (spokesperson: Brigitte Röder). Total grant: 958.388 €; Project grant: 254.633 €.
- 2005: German Research Foundation (DFG; HBFG 102-641): EEG System, PI: Brigitte Röder. Total grant: 140.000 €.
- 2005-2008: German Research Foundation (DFG; Research Center SFB 538; E7 Multilingualism): Critical periods for the acquisition of German and of German Sign Language: Is being multilingual of any advantage? PI: Brigitte Röder. Project grant: 354.800 €.
- 2005-2008: BMBF: 01GO0510: NeurolImageNord (PIs: Christian Büchel, Günther Deuschl, Andreas Engel, Detlef Kömpf, Dieter Naber, Brigitte Röder, Hermann Zeumer). Total grant: 2.000.000 €.
- 2005-2008: German Research Foundation (DFG: FOR 560): Perception and action; PIs: Frank Rösler, Brigitte Röder, Siegfried Bien. Project grant: 226.400 €.
- 2004-2007: German Research Foundation (DFG, GRK 885/1): Brain and behavior: Neuronal representation of action (Spoke persons: Karl Gegenfurtner, Frank Bremmer). Total grant: 1.036.833 € (Project grant: 60.000 €).
- 2000-2004: German Research Foundation (DFG: FOR 254/2-1. 2-4, C1): High density EEG recordings during the activation of semantic and episodic memory. PIs: Frank Rösler, Brigitte Röder, Siegfried Bien.
- 2000-2004: German Research Foundation (DFG, FOR 254/2-1, 2-2, B1): Plasticity of neural representations in blind humans; PIs: Brigitte Röder, Frank Rösler, Siegfried Bien. Total grant: 200.000 €.
- 2000-2004: Emmy Noether Fellowship of the German Research Foundation (Ro 1226/4-1, 4-2, 4-3): Multisensory perception and compensatory plasticity in blind humans. PI: Brigitte Röder. Total grant: 700.000 €.
- 1998-2001: German-American Academic Council Foundation: TransCoop Program: Organization and Reorganization of auditory language functions in sighted and blind People (Brigitte Röder). Total grant: 50.000 DM.
- 1998: German Research Foundation (DFG, Ro 1226/3-1), Travel award (Brigitte Röder). Total grant: 2.400 DM.
- 1995-1997: German Research Foundation (DFG, Ro 1226/1-2), Research Grant: Developmental plasticity („Entwicklungsbedingte Plastizität“) (PI. Brigitte Röder). Total grant: 110.000 DM.
- 1990: Student grant of the Dr. Wolff'sche foundation (Brigitte Röder).
- 1985-1986: Grant for talent High-school students (Brigitte Röder).

## **PROFESSIONAL SOCIETIES**

Deutsche Gesellschaft für Psychologie (DGPs)  
Deutsche Gesellschaft für Psychophysiologie und ihre Anwendung (DGPA)  
Gesellschaft für Neuropsychologie (GNP)  
Indian Academy of Neurosciences (IAN)  
International Multisensory Research Forum (IMRF)  
International Neuropsychological Symposium (INS)  
Neurowissenschaftliche Gesellschaft (NWG)  
Society for Neuroscience (SfN)  
Society for Psychophysiological Research (SPR)  
Wilhelm Wundt-Gesellschaft (WWG)

## MAJOR RESEARCH INTEREST

Multisensory processes and human brain development: Experience dependent functional and structural changes of the human brain during development. Neuroplasticity as a result of sensory deprivation and sensory restitution, perceptual-cognitive training and physical exercise. Research methods include behavioral and electrophysiological techniques as well as structural and functional magnetic resonance imaging (fMRI).

## REVIEW ACTIVITY

Journals	
	Brain
	Brain and Cognition
	Brain Research
	Brain Research Bulletin
	BMC Neuroscience
	British Journal of Ophthalmology
	Canadian Journal of Experimental Psychology
	Cerebral Cortex
	Clinical Neurophysiology
	Cognition
	Cognitive Brain Research
	Communications Biology
	Current Directions in Psychological Science
	Current Biology
	Developmental Psychobiology
	Developmental Science
	EBioMedicine
	Elife
	European Journal of Neuroscience
	Experimental Brain Research
	Frontiers in Integrative Neuroscience
	Frontiers in Psychology

Hearing Research  
Infant and Child Development  
iScience  
Journal of Cognitive Neuroscience  
Journal of Dental Research  
Journal of Neurophysiology  
Journal of Neuroscience  
Journal of Vision  
Nature  
Nature Neuroscience  
Neurocase  
Neuroimage  
Neuropsychologia  
Neuroscience  
Neuroscience and Biobehavioral Reviews  
Neuroscience Letters  
Perception  
PNAS  
Progress in Neurobiology  
Psychophysiology  
Psychological Bulletin  
Psychological Research  
Restorative Neurology and Neuroscience  
Science  
Science Advances  
The European Journal of Cognitive Psychology  
The Quarterly Journal of Experimental Psychology  
Trends in Cognitive Sciences  
Trends in Neuroscience  
Visual Cognition  
Zeitschrift für Neuropsychologie  
Zeitschrift für Psychologie

## Grants

Alexander von Humboldt Foundation (Germany)  
European Research Council (ERC)  
Federal Ministry of Education and Research (BMBF; Germany)  
German Research Foundation (DFG, Germany)  
German National Academy of Sciences Leopoldina  
Le Fonds de la Recherche Scientifique (FNRS)  
Max Planck Society (Germany)  
Medical Research Council (U.K.)  
Minerva Foundation (Germany)

National Science Foundation (U.S.)  
The Wellcome Trust (U.K.)

## ORGANIZED SYMPOSIA AND CONFERENCES

Annual Hector Fellow Academy Symposium "Why children and adults learn differently", Hamburg (Germany), July 11, 2024.

49<sup>th</sup> Annual Meeting „Psychologie und Gehirn“ (PuG) 2024, Hamburg (Germany), May 29 - Juni 1, 2024 (co-organizer).

Symposium "Functional and structural changes in the brain due to exercise", Sports, Medicine and Health Summit 2021, virtual congress, April 20-24, 2021 (together with Kirsten Höttig).

INSA-Leopoldina Symposium "The challenge to learn: New approaches to study the problem of stability vs. plasticity in the brain", Hyderabad (India), November 28-29, 2017 (together with D. Balasubramanian, Jozsef Fiser, Neeraj Jain).

Symposium "Frequency-tagging to understand brain function", International Neuropsychological Symposium (INS), Sitia (Greece), June 20-24, 2017 (together with Jeason Mattingly and Bruno Rossion).

Invited Symposium "Developmental Cognitive Neuroscience: Where Experimental Psychology, Developmental Psychology and Neuroscience Meet". 50<sup>th</sup> Conference of the German Society of Psychology, Leipzig (Germany), September 18-22, 2016 (together with Erich Schröger).

INSA-Leopoldina Symposium "Brain and Eye", in Hyderabad (India), February 1-2, 2016 (together with D. Balasubramanian).

Lecture of the award winner of the European Science Award of the Körber Foundation (May-Britt Moser and Edvard Moser), Hamburg (Germany), September 4, 2014 (co-organizer).

20<sup>th</sup> Meeting of the Organization of Human Brain Mapping, Hamburg (Germany), June 8-12, 2014 (member of the local organization board).

Symposium "Multisensory neural maps for body schema, action and perception: development and dysfunction." International Neuropsychological Symposium, INS, Nerja (Spain), June 24-29, 2013 (together with Elisabetta Ladavas, E. & Maria Concetta Morrone).

Symposium "Cortical connectivity of crossmodal interactions". Annual meeting of the German Society of Neuroscience. March 2013, Göttingen (Germany) (together with Till Schneider).

Conference "13<sup>th</sup> International Multisensory Research Forum", Oxford (U.K.), June 19-June 22, 2012. Member of the organizational board.

Symposium "Neurobiological and psychological determinants of socialisation: Consequences for economy and education II". January 26-27, 2012 (together with Frank Rösler and Ursula Staudinger).

Symposium "Neurobiological and psychological determinants of socialisation: Consequences for economy and education I". December 8-9, 2011 (together with Frank Rösler and Ursula Staudinger).

Conference "11<sup>th</sup> International Multisensory Research Forum", Liverpool (U.K.), June 16-June 19, 2010. Member of the organizational board.

Conference "10<sup>th</sup> International Multisensory Research Forum", New York (U.S.), June 29-July 2, 2009. Member of the organizational board.

Annual Meeting of the Wilhelm-Wundt-Society, Hamburg (Germany), May 21-23, 2009.

Workshop series "Rovereto Workshop on Crossmodal Plasticity"; first workshop: "Crossmodal plasticity in deafness and cochlear implant", Rovereto (Italy) August 27-29, 2009. Co-organizer (with Francesco Pavani, University of Trento, Italy; Pascual Baron, University of Toulouse, France).

Second Sino-German Frontiers of Science Symposium (Alexander von Humboldt Foundation; Chinese Academy of Science), Frankfurt (Germany), May 14-17, 2009. Organizer of the Neuroscience session (together with Xiang Yu, Chinese Academy of Science, Shanghai).

Conference "9<sup>th</sup> International Multisensory Research Forum", Hamburg (Germany); July 16-19, 2008. Main organizer.

Conference „Neuroimaging and Psychological Theories of Human Memory”, Marburg, August 2-5, 2006. (with F. Rösler, C. Ranganath, R.H. Kluwe).

Symposium: "Multisensory processing in human cognition." Annual meeting of the Society of Cognitive Science (*Jahrestagung der Gesellschaft für Kognitions-wissenschaft*), Saarbrücken, March 19-23, 2007.

Symposium: "What sensory deprivation studies tell us about multisensory processing"

5th "International Multisensory Research Forum", Barcelona (Spain), June 2-5, 2004.

Conference "5<sup>th</sup> International Multisensory Research Forum", Barcelona (Spain), June 2-5, 2004. (Member of the organizational board).

Symposium: „Multisensorik und Handlungssteuerung“; Tagung der Experimentell arbeitender Psychologen (TEAP), Giessen (Germany), April 2004 (with J. Trommershäuser, University of Giessen (Germany)).

## **SELECTED INVITED PRESENTATIONS**

(see abstracts too)

**Academy of Sciences and Humanities in Hamburg** (Hamburg, Germany), Workshop: "Are human brain development and learning useful models for artificial cognitive systems", July 21, 2025.

**26th Conference of the Gesellschaft für Strabologie, Neuroophthalmologie und Kinderophthalmologie (GSNK)** (Frankfurt am Main, Germany): "Neuronale Korrelate der Sehleistungen nach kongenitaler Katarakt-Operation" (engl.: "Neural correlates of sight recovery after congenital cataract surgery"), May 25, 2025.

**Academy of Sciences and Humanities in Hamburg** (Hamburg, Germany): "Wie frühkindliche Erfahrungen unser Gehirn formen" (engl.: "How early experience shapes the human brain"), April 16, 2025.

**Deutsche Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN)** (Frankfurt am Main, Germany): Presidential Symposium "The role of early experience for human brain development", March 13, 2025.

**Research Academy of the Max Planck School of Cognition** (Berlin, Germany): "Dissecting the visual processing hierarchy with non-invasive electrophysiology approaches in humans", December 5, 2024

**Maastricht University** (Maastricht, The Netherlands): "The role of early visual experience for the development of the human visual system", November 11, 2024

**The Heidelberg Laureate Forum** (Heidelberg, Germany): Podium "The paradox of AI. Smarter than a grandmaster but more ignorant than a toddler"; statement "Machine learning vs. human learning", September 24, 2024

**Annual Hector Fellow Academy Symposium** (Hamburg, Germany): "How important is early childhood experience for human brain development?", July 11, 2024.

**Annual meeting of the Wilhelm Wundt Society (WWG)** (Leipzig, Germany): „Wie uns Forschung zur Sehrestitution hilft die menschliche Gehirnentwicklung zu verstehen“, May 3, 2024.

**Conference on Cognitive Science and Human Development: A Transdisciplinary International Conclave (ACCL)** (University of Hyderabad, India): "The role of visual experience for the development of active vision and underlying neural representations", February 12-14, 2024.

**Annual meeting of the Center for Mind, Brain and Behavior (CMBB)** (Gießen,

Germany): „The role of visual experience for the development of active vision and underlying neural representations“, October 5, 2023.

**Karolinska Institute** (Stockholm, Sweden). "Recovery from congenital blindness: A model to study the mechanisms of sensitive periods in humans." May 25, 2023.

**Rotary Club Hamburg-Elbe** (Hamburg, Germany): Research visit at the LV Prasad Eye Institute, Hyderabad, India. March 30, 2023.

**CEU Budapest** (Budapest, Hungary): Recovery from congenital blindness: A model to study the mechanisms of sensitive periods in humans. March 24, 2023.

**Indian Institute of Technology** (Gandhinagar, India): How research in sight restoration helps us understanding human brain development. February 14, 2023.

**23rd Congress "European Association for Vision and Eye Research" (EVER) 2022** (Valencia, Spain): Keynote "Brain mechanism of sight recovery". October 13, 2022.

**47<sup>th</sup> Annual Meeting „Psychologie und Gehirn“ (PuG) 2022** (Freiburg, Germany): Keynote „Wie frühkindliche Erfahrungen das menschliche Gehirn formen“. June 18, 2022.

**Alfried Krupp Wissenschaftskolleg Greifswald** (Greifswald, Germany): „Sensible Phasen in der menschlichen Hirnentwicklung untersucht am Modell von Blindheit und Sehrestitution“. May 31, 2022.

**University College London** (online lecture): "Recovery of visual and multisensory functions after congenital cataract surgery". January 11, 2022.

**Max Planck Institute for Human Cognitive and Brain Sciences** (online lecture): "The role of experience for the development of visual and multisensory functions". November 25, 2021.

**Max Planck School of Cognition** (online lecture): "Multisensory processing and age-dependent neuroplasticity". September 2, 2021.

**World Wide Web seminar "Multisensory Perception Talks"** (online lecture): "Multisensory development and the role of visual experience". June 17, 2021.

**Champalimaud Research Symposium** (Hyderabad, India) (online lecture): "How neuroscience helps to understand functional recovery after congenital cataract surgery". January 31, 2021.

**Hamburg Institute for Advanced Study (HIAS)** (online lecture): "Age dependent learning: Sensitive periods in human brain development". October 22, 2020.

**Goethe Center Hyderabad** (online lecture): "Brain mechanisms of sensitive periods". August 28, 2020.

**21st Ophthalmologists' Meeting, Augen-Praxis-Klinik Esslingen** (Esslingen, Germany): „Die Rolle der frühkindlichen Seherfahrung auf die visuelle und audiovisuelle Wahrnehmung“, February 1, 2020.

**Max Planck School of Cognition** (Berlin, Germany): "An introduction to neuroplasticity", January 10, 2020.

**Rotary Club Hamburg-Deichtor** (Hamburg, Germany): "Die Rolle frühkindlicher Erfahrung für die menschliche Gehirnentwicklung", November 25, 2019.

**Science Academy in Hamburg** (Hamburg, Germany): „Research at the interface between Psychology and Neuroscience", November 18, 2019.

- Annual Meeting of the Society for Neuroscience** (Chicago, US): German Social keynote “Sensitive period plasticity in humans”, October 21, 2019.
- Science Academy in Hamburg** (Hamburg, Germany): „Plastizität neuronaler Netzwerke als Grundlage von menschlichem Lernen in der Entwicklung und im Erwachsenenalter“, May 5, 2019.
- Central European University** (Budapest, Hungary): “Multisensory integration and crossmodal recalibration”, March 27, 2019.
- Visual function acquisition in normal development and following emergence from blindness Workshop** (Jerusalem, Israel): “The privilege of the first arriving input in human brain development”, December 16-18, 2018.
- Low Vision and the Brain** (Berlin, Germany): “Functional recovery after cataract surgery”, December 1, 2018.
- University of Lübeck** (Lübeck, Germany): “Learning in development vs. adulthood: Sensitive phases in human brain development”, November 6, 2018.
- The Blind Brain Workshop** (Lucca, Italy): “Experience dependent development of neural network dynamics”, October 11-13, 2018.
- New Horizons in Vision and Hearing Research** (Center for Neurosensory Systems (Tübingen, Germany): Evening Lecture “Neural correlates of sensory restitution in humans”, March 5, 2018.
- LV Prasad Eye Institute Eleventh Annual Champalimaud Symposium** (Hyderabad, India): Keynote “The neural basis of sight recovery after cataract surgery”, January 28, 2018.
- LV Prasad Eye Institute** (Hyderabad, India): “Neuroplasticity”, January 17, 2018.
- Indian Institute for Science, Education and Research** (Kolkata, India): “Early experience leaves permanent traces in the human brain”, January 5, 2018.
- Brain Modes** (Manesar, India): “Experience and age dependent development of neural representation”, December 13, 2017.
- Center for Advanced Studies in Dubrovnik** (Croatia), Spring School Rethinking the senses: “Experience shapes multisensory functions”, April 4, 2017.
- University Jena, Spring School on Cortical Feedback** (Germany): “Crossmodal plasticity and learning differ in development and adulthood”, March 8, 2017.
- Utrecht University, Experimental Psychology Department** (Netherlands): Invited keynote “The visual influence on spatial representations”, February 24, 2017.
- Durham University, Psychology Department** (U.K): “Experience dependent multisensory development”, February 3, 2017.
- XXXIV Annual Meeting of Indian Academy of Neurosciences** (Manesar, India): Special Lecture “Experience-dependent development of (multi)sensory functions”, October 20, 2016.
- German Society of Psychology 50<sup>th</sup> Anniversary Meeting** (Leipzig, Germany). Keynote “Sensitive periods in human neuro-cognitive development”, September 22, 2016.
- Leibniz-Lecture in Hyderabad** (Hyderabad, India): “Sensitive phases in human brain development”, February 3, 2016.
- Hertie Stiftung/FAZ Reihe „Hirnforschung, was kannst du?“** (Frankfurt, Germany):

„Altersabhängige Lernplastizität des menschlichen Gehirns“; September 15, 2015.

**IBRO** (Rio de Janeiro, Brazil): DFG workshop “Research in Germany”, July 10, 2015.

**German House for Research and Innovation** (New Delhi, India): First Leopoldina-Leibniz Lecture “Age-dependent learning plasticity in humans”, January 21, 2015.

**National Brain Research Center** (New Delhi, India): “Multisensory processing and neuroplasticity”, January 20, 2015.

**ISSA** (Pune, India): “The role of experience in brain development”. January 15, 2015.

**29<sup>th</sup> Hamburg day of sportmedicine** (Hamburg, Germany): “Sport medicine from the perspective of a neuropsychologist”, December 9, 2014.

**Delmenhorst, Institute for Advanced Study** (Germany): “Age dependent learning plasticity”, November 27, 2014.

**Herrenhausen Seminar, Hannover** (Germany): “Sensitive periods in humans: The visual deprivation approach”, November 25, 2014.

**Universitätsgesellschaft Hamburg** (Germany): “How experience shapes brain and behavior”, October 8, 2014.

**University of Leuven** (Belgium): “Development, sensitive phases and adult recalibration of multisensory processes”, September 28, 2014.

**German National Academy, Annual Meeting in Rostock** (Germany): “Multisensory Processing”, September 19, 2014.

**Rotary Club Hamburg-Alstadt** (Germany): “Sensible Phasen in der menschlichen Gehirnentwicklung”, September 1, 2014.

**University of Hamburg** (Germany): “Sensible Phasen in der menschlichen Gehirnentwicklung”, May 14, 2014.

**Osnabrück Computational Cognitive Alliance Meeting** (Germany): Keynote “Plasticity of multisensory functions: Spatial recalibration, emotional and motivational influences”, May 7, 2014.

**Summerschool German-Chinese graduate school** (Beijing, China): “Developmental plasticity of multisensory functions”, September 9, 2013.

**Chinese Academy of Science, Institute for Automation** (Beijing, China): “Plasticity of multisensory functions”, September 9, 2013.

**Sino-German Workshop** (Hamburg, Germany): “Why do critical periods exist in development”, September, 2, 2013.

**International Neuropsychological Symposium** (Nerja, Spain): “The role of experience in multisensory development and processing”, June 26, 2013.

**Central European University Budapest** (Hungary): “Developmental and adult plasticity of multisensory function”, May 22, 2013.

**Radboud University Nijmegen** (The Netherlands): “Multisensory processing: development, sensitive phases and adult recalibration”, May 14, 2013.

**Sixth Annual Champalimaud Research Symposium** (Hyderabad, India): Invited presentation “Functional recovery after cataract surgery shows age dependent neural plasticity in humans”, January 30, 2013.

**University for Music and Theater, Rostock.** Invited presentation. “Kompensatorische Lernplastizität bei blinden Menschen”, January, 12, 2013.

**University of Hamburg, Medical Faculty.** “Altersabhängige Lernplastizität untersucht

- am Modell der sensorischen Deprivation beim Menschen”, August 17, 2012.
- Fifth Annual Champalimaud Research Symposium** (Hyderabad, India): Invited presentation “Functional recovery of visual and multisensory functions after a transient phase of total congenital blindness”, January 30, 2012.
- German National Academy Leopoldina** (Potsdam, Germany), Initiative “Neurobiological and psychological factors of socialization: Consequences for economy and education”: “Critical periods”, December 8, 2011.
- Jacobs University Bremen** (Germany): “Crossmodally generated shifts of auditory localization”, December 6, 2011.
- German Rectors’ Conference** (Frankfurt, Germany): “ERC advanced investigators grant”, October 10, 2011.
- University of Zürich**, Neuropsychology: “The experience dependence of multisensory development”, May 18, 2011.
- Ludwig-Maximilians University München**, Psychology: “Crossmodal generated shifts of auditory localization”, February 9, 2011.
- Lübeck**, 23<sup>rd</sup> Workshop for early interventions in blind individual: Keynote: “Compensatory plasticity in the blind”, January 21, 2011.
- University of Edinburgh**, Center for Cognitive and Neural Systems: „Reference Frames for multisensory interactions“, November 25, 2010.
- International Conference on Parietal lobe Functions, Amsterdam**: “Crossmodally generated shifts of auditory localization”, September 21, 2010.
- Bewegung und Leistungssport, Hamburg**: Keynote “Sport und Kognition, September 2, 2010.
- Body Representation Workshop, London**: invited theme talk: “Development plasticity of reference frames for touch”, March 29, 2010.
- Max Planck Institute for Human Cognition and Brain Sciences**: “What do we learn from multisensory processes about age dependent neural plasticity in humans?”, July 17, 2009.
- Max-Planck Institute (Center for Lifespan Psychology), Berlin**: “The visual deprivation approach to study (multi)sensory development in humans”, March 24, 2009.
- Tactile Research Group; Chicago**: “Spatial reference frames for tactile perception”, November 13, 2008.
- Les Diablerets, Lemanic-Neurosciences Annual Meeting**: Keynote: „Development and plasticity of multisensory functions“, September 12, 2008.
- University of Saarbrücken**: „Multisensory space“, May 21, 2008.
- Chinese-German Frontiers in Science, Beijing**: “What is Neuroplasticity?”, March 13. 2008.
- Chinese Academy of Science, Shanghai**: “Multisensory processing and the sensory deprivation approach”, March 10, 2008.
- University of Frankfurt**: “The critical role of developmental vision for (multi)sensory perception”, December 6, 2007.
- Polytechnische Gesellschaft, Frankfurt**: “Wie Blinde den Verlust eines Sinnessystems kompensieren”, October 2, 2007

- University of Oldenburg:** "Multisensory functions are shaped by developmental vision", July 16, 2007.
- University of Oxford:** "Developmental vision shapes multisensory processes", May 8, 2007.
- University of Hamburg** (21. Hamburger Tage der Sport und Bewegungsmedizin): „Bewegung und Neuroplastizität“, April 14, 2007.
- Nürnberg („Turm der Sinne“):** "Sensory perception and language comprehension in the blind: the plastic brain", September 23, 2006.
- Martin Luther University Halle-Wittenberg:** "Interaktionen der Sinnessysteme und crossmodale Kompensation", July 4, 2006.
- Ärztekammer Hamburg:** "Kompensatorische Plastizität des Gehirns", April 11, 2006.
- University of Würzburg:** "How the senses interact and how vision influences multisensory perception", Januar 16, 2006.
- Verband der Blinden- und Sehbehindertenpädagogen/innen**, Hannover: "Wie Blinde sehen – Neuronale Grundlagen kompensatorischer Leistungen bei blinden Menschen", December 10, 2005.
- Dartmouth College (Hanover, U.S.)**, "Summer School in Cognitive Neuroscience": "What we learn from the blind about neuroplasticity, July 29, 2005.
- University of Karlsruhe:** Study Centre for the Visual Impaired: "How the blind perceive the world" December 13, 2004.
- University of Lausanne**; University Hospital, Neuropsychology: "Multisensory processes and their fate in the blind"; November 18, 2004.
- University of Konstanz:** "The blind brain", October 22. 2004.
- University of London**, Institute for Cognitive Neuroscience: "What we learn from the blind about multisensory processes", October 4, 2004.
- Max-Planck-Institute for Psychology, Munic:** "Multisensory perception and cross-modal compensation", December 10, 2003.
- University Bochum, Graduate School Neuroscience:** "Blindness: A Model to study Neuronal Plasticity" November 17, 2003.
- Potsdam, Emmy-Noether lecture** "Wie Blinde den Verlust eines Sinnessystems kompensieren", July 19, 2003.
- Justus-Liebig University Giessen**, Experimental Psychology: "Multisensory perception and compensatory plasticity in the blind", April 18, 2003.
- University Tübingen**, Cognitive Neurology: "Multisensory representations of space and the contribution of visual", January 23, 2003.
- Max-Planck-Institute for Biological Cybernetics, Tübingen:** "Spatial cognition without vision", November 22, 2002.
- Wellcome Department of Imaging Neuroscience, London (U.K.)** "Compensatory changes in perceptual-cognitive functions as a consequence of visual deprivation in humans", November 8, 2002.
- Tamagawa University**, Brain Science Research Center (Japan): "Compensatory changes in perceptual and higher cognitive functions as a consequence of visual deprivation in humans", August 2, 2002.
- Tsukuba University**, Neuroscience Research Institute (Japan): "Compensatory plasticity

in congenitally blind humans", July, 23, 2002.

**Philipps-University Marburg**, Studium Generale: "Ist bei Blinden alles anders? Wie das Gehirn den Ausfall einer Sinnesmodalität kompensiert, June 19, 2002.

**Max-Planck Institute for Brain Research, Frankfurt**: "What we learn from the blind about plasticity of auditory functions", May 9, 2002.

**University of Bremen**: "Kompensatorische Plastizität bei blinden Menschen", December 10, 2001.

**Hanse Wissenschaftskolleg Delmenhorst**: "The principles of brain plasticity", March 8, 2001.

**University of Greifswald**; Psychology Department: "Compensatory plasticity in the blind", December 13, 2000.

**Otto-von-Guericke-University Magdeburg**; Psychology Department: "Auditory compensation in blind humans", July 4, 2000.

**University of Braunschweig**; Psychology Department: "Compensatory plasticity in blind humans", November 23, 1999.

**Johann-Wolfgang Goethe University Frankfurt**, Psychophysiology Department III: "Neuroplasticity in blind humans". June 23, 1999.

**Heinrich-Heine University Düsseldorf**: Psychophysiological Department: "Electrophysiological indices of neuronal plasticity in blind humans", January 29, 1999.

**University of Marburg**, Neuroscience group: "Neural Plasticity in blind humans", January 14, 1999.

**University of Leipzig**: "Behavioral and electrophysiological indices of compensatory memory performance in blind compared to sighted adults". December 2, 1998.

**University of Oregon, Eugene**, Institute of Cognitive & Decision Sciences - Colloquium: "Event-related potentials indicating neural plasticity in blind human subjects", Eugene, December 2, 1996.

**University of Washington**, Seattle: "Slow and phasic event-related potentials in blind and sighted human subjects", January 1996.

**University of Illinois, Urbana-Campaign**: "Haptic mental rotation in blind and sighted human subjects", September 1993.

## PUBLIC OUTREACH

(selected public outreach activities since 2014)

*International neuroscience research. Can People Born Blind Learn to See?* Interview with Brigitte Röder by Anna Priebe. Newsroom of the University of Hamburg, Doing the Research series 38, 04.12.2024. <https://www.uni-hamburg.de/en/newsroom/forschung/2024/1203-fv-38-pb-gehirnforschung.html>

*in German: Internationale neuro-psychologische Forschung. Können blind geborene Menschen Sehen lernen?* Interview with Brigitte Röder by Anna Priebe. Newsroom of the University of Hamburg, Doing the Research series 38, 04.12.2024 <https://www.uni-hamburg.de/newsroom/forschung/2024/1203-fv-38->

## pb-gehirnforschung.html

*Why Do Children and Adults learn differently?* Annual Symposium of the Hector Fellow Academy (Hamburg, Germany), July 11, 2024. Film by the Hector Fellow Academy. Published on YouTube, 16.07.2024. <https://www.youtube-nocookie.com/embed/ofR2VaTYYt4?rel=0>

in German: Wieso lernen Kinder anders als Erwachsene? Annual Symposium of the Hector Fellow Academy (Hamburg, Germany), July 11, 2024. Film by the Hector Fellow Academy. Published on YouTube, 16.07.2024. <https://www.youtube-nocookie.com/embed/TArL7PjHfFg?rel=0>

*Fascinating Brain – Brigitte Röder and Her Research on Neuroplasticity.* Film by the Hector Fellow Academy. Published on YouTube, 22.02.2024. <https://www.youtube-nocookie.com/embed/cfvwOoVsnUc?rel=0>

in German: Faszination Gehirn – Brigitte Röder und ihre Forschung zur Neuroplastizität. Film by the Hector Fellow Academy. Published on YouTube, 22.02.2024. <https://www.youtube-nocookie.com/embed/AZy31wrThgU?rel=0>

*Plastizität neuronaler Netzwerke als Grundlage von menschlichem Lernen in der Entwicklung und im Erwachsenenalter.* Talk by Brigitte Röder within the lecture series "Das intelligenteste Netzwerk der Welt: Unser Gehirn" by the Academy of Sciences and Humanities in Hamburg (Hamburg, Germany) 09.05.2019. <https://www.awhamburg.de/veranstaltungen/aktuelle-termine/details/plastizitaet-neuronaler-netzwerke-als-grundlage-von-menschlichem-lernen-in-der-entwicklung-und-im-erwachsenenalter.html>

*Vom Dunkel ins Licht.* Article by Alexander Krex, Photographies by Helena Schätzle. Geo, 12/2017, S. 82-96.

*Wenn das Gehirn sich formen lässt.* Article by Brigitte Röder. Frankfurter Allgemeine Zeitung (FAZ), 23.09.2015, Nr. 221, Natur und Wissenschaft, S. N2.

*Wahnsinn trifft Methode: „Wahrheit“.* Round table discussion at the Thalia Nachtasyl (Hamburg, Germany) 23.06.2015. Published on YouTube, 12.07.2015. <https://www.youtube-nocookie.com/embed/PQux3LKavxo?rel=0>

*Frühkindliche Bildung. Was Hänschen nicht lernt.* Report on the podium discussion at the Academy of Sciences and Humanities in Hamburg in cooperation with the German National Academy of Sciences *Was Hänschen nicht lernt...? Ergebnisse zur fröhkindlichen Sozialisation aus Biologie, Psychologie, Linguistik und Ökonomie* (Hamburg, Germany) 03.12.2014. Editorial and moderation by Hans-Jürgen Bartsch. Deutschlandfunk Nova, Hörsaal, 11.01.2015. <http://dradiowissen.de/beitrag/fröhkindliche-bildung-grenzen-und-möglichkeiten>

*Was Hänschen nicht lernt...? Ergebnisse zur frühkindlichen Sozialisation aus Biologie, Psychologie, Linguistik und Ökonomie.* Podium discussion at the Academy of Sciences and Humanities in Hamburg in cooperation with the German National Academy of Sciences (Hamburg, Germany) 03.12.2014. Published on YouTube, 10.12.2014.

<https://www.youtube.com/embed/C7K8fUDoM6U?si=c4D8PQEDRrvPynCYrel=0>

*Die Visionärin.* Portrait of Brigitte Röder. Gehirn und Geist. Das Magazin für Psychologie und Hirnforschung, 11/2014, 44f. <http://www.spektrum.de/magazin/profil-neuropsychologin-brigitte-roeder/1311578>

*Socialisation in early childhood. Biological, psychological, linguistic, sociological and economic perspectives.* Statement. German National Academy of Sciences Leopoldina, acatech – German Academy of Science and Engineering, The Union of the German Academies of Sciences and Humanities, July 2014.  
[https://www.leopoldina.org/uploads/tx\\_leopublication/2014\\_Stellungnahme\\_Sozialisation\\_EN\\_web.pdf](https://www.leopoldina.org/uploads/tx_leopublication/2014_Stellungnahme_Sozialisation_EN_web.pdf)

[https://www.leopoldina.org/uploads/tx\\_leopublication/2014\\_Stellungnahme\\_Sozialisation\\_KURZ\\_EN\\_web.pdf](https://www.leopoldina.org/uploads/tx_leopublication/2014_Stellungnahme_Sozialisation_KURZ_EN_web.pdf) (short version).

In German: *Frühkindliche Sozialisation. Biologische, psychologische, linguistische, soziologische und ökonomische Perspektiven.* Stellungnahme. Nationale Akademie der Wissenschaften Leopoldina, acatech – Deutsche Akademie der Technikwissenschaften, Union der deutschen Akademie der Wissenschaften, Juli 2014.

[https://www.leopoldina.org/uploads/tx\\_leopublication/2014\\_Stellungnahme\\_Sozialisation\\_web.pdf](https://www.leopoldina.org/uploads/tx_leopublication/2014_Stellungnahme_Sozialisation_web.pdf)

[https://www.leopoldina.org/uploads/tx\\_leopublication/2014\\_Stellungnahme\\_Sozialisation\\_KURZ\\_web.pdf](https://www.leopoldina.org/uploads/tx_leopublication/2014_Stellungnahme_Sozialisation_KURZ_web.pdf) (short version).

## TEACHING EXPERIENCE

(a) *Psychology Department, Philipps-University Marburg (Germany):*

Courses: (1) Experimental Psychology ("ERP-correlates of subjective expectancy"), (2) Experimental Psychology ("Haptic Memory"), (3) Experimental Psychology ("Short-term Memory"), (4) Experimental Psychology ("Image Scanning"), (5) Experimental Psychology ("Visual spatial attention"), (6) Experimental Psychology ("False Memory") (7) "Distortion of egocentric reference frames", (8) "Attention to motion".

Seminars: (1) "Mental workload in the working environment", (2) "Attention and mental workload", (3) "Marketing psychology and psychology of advertising", (4) "Topics in Psychophysiology", (5) "Plasticity of cortical representations", (6) "Brain development and plasticity", (7) "Perception and Attention", (8) "Auditory

Perception", (9) "Introduction to Psychology", (10) "Developmental Cognitive Neuroscience", (11) "Haptic memory", (12) "Psychology of attention", (13) "Introduction to the Cognitive Neurosciences", (14) "Multisensory perception", (15) "Cognitive neuroscience applied", (16) "Biological Psychology".

Lectures: (1) "Perception", (2) "Introduction to the Cognitive Neurosciences".

(b) *Psychology Department, University of Hamburg (Germany):*

Lectures: (1) "Introduction to the Cognitive Neurosciences", (2) "Biological Psychology", (3) "Methods in Cognitive Neuroscience", (4) "Developmental Cognitive Neuroscience", (5) "Sensitive Periods".

Courses: (1) "Introduction to the Cognitive Neurosciences", (2) "Experimental demonstrations", (3) "Experimental methods".

Seminars: (1) "Cognitive Neuroscience", (2) "Neuroplasticity", (3) "How we perceive the world, speak, think and act", (4) "Cognitive Neuroscience and aging", (5) Doctoral Seminar, (6) "Biological Psychology", (7) "Neuroscience of Attention", (8) "Multisensory processes", (9) "Developmental Cognitive Neuroscience", (10) Science seminar.

(c) *Psychology Department, University of Oregon, Eugene (U.S.):*

Seminars: (1) "Brain development".

(d) *Summer and Spring schools (see talks)*

## PHD CANDIDATES AND POSTDOCS

Finished Doctoral Theses: Stephanie Badde, Angelika Becker (co-supervision), Anton Beer, Malte Bieler (co-supervision), Patrick Bruns, Ineke Fengler, Ingo Fleischer, Julia Föcker, Matthias Gondan, Helene Gudi, Marlene Hense, Tobias Heed, Cordula Hölig (co-supervision), Kirsten Höttig, Kathrin Holzschneider, Alexander Kramer, Anne Kriegseis, Laura Kuhne (co-supervision), Kathrin Lange, Pia Ley, Madita Linke, Mario Maiworm, Valeria Occelli (co-supervision), Rashi Pant, Lisa Putzar, Chiara Renzi (co-supervision), Ann-Kathrin Rogge, Sophie Rohlf, Ulrike Schild (co-supervision), Daniela Schönberger, Thomas Schröder, Jonathan Schubert (co-supervision), Kai Sieben (co-supervision) Nils Skotara, Sudha Sourav, Liesa Stange, Oliver Stock (co-supervision), Anna-Lena Stroh, Ralf Sürig, Agnes Villwock Andreas Weiß, Zhenzhu Yue (co-supervision), Dan Zhang (co-supervision), Liang Zhang (co-supervision), Björn Zierul.

Current Doctoral Candidates: Duygu Bayir, Jordan Hassett, Carolin Heitmann, Waqar Khan, Batuhan Koçak, Cora Kubetschek, Tiago Mesquita, Sina Storm.

Past Postdocs: Stephanie Badde, Rakesh Balachandar, Davide Bottari, Patrick Bruns Thérèse Collins, Aline de Borst, Maria de Sousa Guerreiro, Giulia Dormal, Claudia Friedrich, Margriet Groen, Boukje Habets, Barbara Hänel-Faulhaber, Tobias Heed, Kirsten Höttig, Kishore Jagini, Lux Li, David Magezi, Elena Nava, Krista

Overvliet, Rashi Pant, Kabilan Pitchaimuthu, Katarzyna Rączy, Siddhart S. Rajendran, Ann-Kathrin Rogge, Ralf Sürig, Jonathan Tong, Sina Trautmann.

Current Postdocs: Hossein Abbasi, Cordula Hölig, Gargi Majumdar, José Ossandón, Diane Rekow.

## PUBLICATIONS

### Journals

#### 2025

- P230. Abbasi, H., King, C. D., Lovich, S., Röder, B., Groh, J. M., & Bruns, P. (2025). Eye movement-related eardrum oscillations do not require current visual input. *Hearing Research*, 465, 109346. <https://doi.org/10.1016/j.heares.2025.109346>
- P229. Bruns, P., Paumen, T., & Röder, B. (2025). Perceptual training of audiovisual simultaneity judgments generalizes across spatial locations. *Perception*, 54(8), 609-627. <https://doi.org/10.1177/03010066251342010>
- P228. Bruns, P., Dinse, H. R., & Röder, B. (2025). Higher-order visual location learning does not explain multisensory enhancement of sound localization (Reply to Vroomen & Stekelenburg, 2021). *European Journal of Neuroscience*, 61, e70132. <https://doi.org/10.1111/ejn.70132>
- P227. Ossandón, J.P., Rossion, B., Dormal, G., Kekunnaya, R., & Röder, B. (2025). Impaired rapid neural face categorization after reversing long-lasting congenital blindness. *Cortex*, 187, 124-139. <https://doi.org/10.1016/j.cortex.2025.04.007>
- P226. Pant, P., Pitchaimuthu, K., Ossandón, J., Shareef, I., Lingareddy, S., Finsterbusch, J., Kekunnaya, R., & Röder, B. (2025). Altered visual cortex excitatory/inhibitory ratio following transient congenital visual deprivation in humans. *eLife*, 13, RP98143. <https://doi.org/10.7554/elife.98143>
- P225. Rączky, K., Linke, M., van den Hurk, J., Heitmann, C., Guerreiro, M. J. S., Zhan, M., Kekunnaya, R., Goebel, R., & Röder, B. (2025). Visual and auditory object representations in ventral visual cortex after restoring sight in humans. *Human Brain Mapping*, in press.

#### 2024

- P224. Bruns, P., Thun, C., & Röder, B. (2024). Quantifying accuracy and precision from continuous response data in studies of spatial perception and crossmodal recalibration. *Behavior Research Methods*, 56(4):3814-3830. 56(4), 3814-3830. <https://doi.org/10.3758/s13428-024-02416-1>
- P223. Höttig, K., Shareef, I., Rogge, A.-K., Hamacher, D., Zech, A., Kekunnaya, R., Christy, B. & Röder, B. (2024). Posture control depends on early visual experience. *Journal of Vision*, 24(9), 3. <https://doi.org/10.1167/jov.24.9.3>
- P222. Overvliet, K., Postma, A., & Röder, B. (2024) Child development and the role of visual experience in the use of spatial and non-spatial features in haptic object perception. *Journal of Experimental Child Psychology*, 242, 10585. <https://doi.org/10.1016/j.jecp.2024.105885>
- P221. Schönberger, D., Bruns, P., & Röder B. (2024). Visual artificial grammar learning across one year in 7-year-olds and adults. *Journal of Experimental Child Psychology*, 241, 105864. <https://doi.org/10.1016/j.jecp.2024.105864>

- P220. Sourav, S., Kekunnaya, R., Bottari, D., Shareef, I., Pitchaimuthu, K., & Röder, B. (2024). Sound suppresses earliest visual cortical processing after sight recovery in congenitally blind humans. *Communications Biology*, 7(1), 118. <https://doi.org/10.1038/s42003-023-05749-3>
- P219. Sourav, S., Röder, B., Ambsdorf, F., Melissari, A., Arvaniti, M., & Vatakis, A. (2024). No evidence that sound-shape associations influence temporal resolution in humans: Five non-replications of Parise and Spence (2009) and meta-analyses. *Journal of Experimental Psychology: General*. Advance online publication. <https://dx.doi.org/10.1037/xge0001641>
- P218. Stroh, A.L., Overvliet, K., Zierul, B., Rösler, F., & Röder, B. (2024). Motor adaptation in deaf and hearing native signers. *Journal of Deaf Studies and Deaf Education*, 29(3), 335-349. <https://doi.org/10.1093/deafed/enae010>

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- P1. Rösler, F., Röder, B., Heil, M., & Hennighausen, E. (1993). Topographic differences of slow event-related brain potentials in blind and sighted adult human subjects during haptic mental rotation. ***Cognitive Brain Research***, 1(3), 145-159.  
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## **Book chapters and conference proceedings**

**2024**

- BC24. Bruns, P., & Röder, B. (2024). Improvement of sound localization after spatially congruent audiovisual exposure: A special case of crossmodal recalibration or higher-order visual location learning? ***Fortschritte der Akustik - DAGA 2024***, (pp. 237-240).

**2022**

- BC23. Röder, B., & Kekunnaya, R. (2022). Effects of Early Visual Deprivation. In: ***Oxford Research Encyclopedia of Psychology (published online: 18. July 2022)***. Oxford: University Press.  
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- BC19. Röder, B. (2015). Altersabhängige Lernplastizität: Sensible und kritische Perioden in der neurokognitiven Entwicklung. ***Nova Acta Leopoldina NF 122, Nr. 410***, 125-139.

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- BC18. Torras, N., Zinoviev, K.E., Camargo, C.J., Campo, E.M., Campanella, H., Esteve, J., Marshal, J.E., Terentjev, E.M., Omastova, M., Krupa, I., Teplický, P., Mamojka,

B., Bruns, P., Röder, B., Vallribera, M., Malet, R., Zuffanelli, S., Soler, V., Roig, J., Walker, N., Wenn, D., Vossen, F., Cromvoets, F.M.H. (2013). Nematic opto-mechanical actuators for the fabrication of refreshable tactile systems. *Transducers & Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems (TRANSDUCERS & EUROSENSORS XXVII), Barcelona, 2013* (pp. 1691-1694). doi: 10.1109/Transducers.2013.6627111.

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- BC16. Röder, B. (2012). Sensory deprivation and the development of multisensory integration. In A. Bremner, D. Lewkowicz, & Spence, C. (Eds.), *Multisensory development* (pp. 301-324), Oxford: Oxford University Press.
- BC15. Lewkowicz, D., & Röder B. (2012) Development of multisensory processes and the role of early experience. In B.E. Stein (ed.) *The New Handbook of Multisensory Processing* (pp. 607-626), Cambridge, MIT Press.
- BC14. Pavani F, & Röder B. (2012) Crossmodal plasticity as a consequence of sensory loss: Insights from blindness and deafness. In B.E. Stein (ed.) *The New Handbook of Multisensory Processes* (pp. 737-759), Cambridge, MIT Press.

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- BC5. Röder, B., & Rösler, F. (2003). The principle of brain plasticity. In: R. H. Kluwe, G. Lüer, & F. Rösler (Eds.), *The principle of learning and memory* (pp. 27-49). Basel: Birkenhäuser.

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- BC3. Röder, B., Rösler, F., & Hennighausen, E. (1997). Ereigniskorrelierte Potentiale während haptischer mentaler Rotation und akustischer und somatosensorischer Diskrimination bei sehenden und blinden Personen. In: H. Mandl (Ed.), *Proceedings for the 40th Meeting of the German Psychological Society (DGPs) (Sept. 22-26, München, Germany)* (pp. 114-124). Göttingen: Hogrefe.

- BC2. Röder, B. (1995). Ereigniskorrelierte Potentiale als Indikatoren neuronaler Plastizität bei blinden Menschen. Dissertation, Philipps-Universität Marburg, Fachbereich Psychologie.
- BC1. Röder, B., & Rösler, F. (1994). Kann die kognitive Psychophysiolgie einen Beitrag zur Arbeitssicherheit leisten? In: F. Burkardt, & C. Winkelmeier (Eds.), ***Psychologie der Arbeitssicherheit*** (pp. 449-458). Heidelberg: Roland Asanger Verlag.

### **Books & Special issues**

- B4. Röder, B., & Manzey, D. (2012): Special Issue: How to reconcile brain and mind? ***Psychological Research*, 76**.
- B3. Röder, B., & Wallace, M. (2010): Special issue: "Development and Plasticity of Multisensory Functions", ***Restorative Neurology and Neuroscience*, 28 (2)**.
- B2. Spence, C., Senkowski, D., & Röder, B. (2009): Special issue: "Crossmodal processing", ***Experimental Brain Research***. 198 (2-3)
- B1. Rösler, F., Ranganath, C., Röder, B., & Kluwe, R. (Eds.) (2009). ***Neuroimaging of human memory*** – Linking cognitive processes to neural systems. Oxford University Press.

## Abstracts

### 2025

- A335. Bruns, P., Storm, S., Röder, B. (2025). Crossmodal spatial recalibration in six-year-old children depends on feedback. Talk at the *23rd International Multisensory Research Forum (IMRF 2025), Durham, UK, July 15-18, 2025*.
- A334. Hassett, J., Hölig, C., Lingareddy, S., Kekunnaya, R., Röder, B. (2025). Along-the-tract analysis of white matter integrity in congenital cataract reversal individuals. Poster presented at the *31st Annual Meeting of the Organization for Human Brain Mapping (OHBM 2025), Brisbane, Australia, June 24-28, 2025*.
- A333. Majumdar, G., Nalluri, A., Khan, W., Kolli, B., Lingareddy, S., Kekunnaya, R., Röder, R. (2025). Effect of early visual experience on spontaneous cortical neural variability. Poster presented at *The Brain Conference: Frontiers of Theoretical Neuroscience, Rungstedgaard, Denmark, June 3-6, 2025*.
- A332. Mesquita, T., Majumdar, G., Khan, W., Nalluri, A., Lingareddy, S., Kekunnaya, R., Röder, B. (2025). Do retinal biases in category-selective regions of the ventral temporal cortex depend on experience? Poster presented at the *25th Annual Meeting of the Vision Science Society 2025 (VSS 2025), St. Pete Beach, Florida, USA, May 16-20, 2025*.
- A331. Pant, R., Pitchaimuthu, K., Ossandón, J., Shareef, I., Lingareddy, S., Finsterbusch, J., Kekunnaya, R., Röder, B. (2025) Altered visual cortex excitatory/inhibitory ratio following transient congenital visual deprivation in humans. Symposium "Blindness as a window into fundamental principles of brain organisation: Moving beyond absolutist frameworks" at the *23rd International Multisensory Research Forum (IMRF 2025), Durham, UK, July 15-18, 2025*.
- A330. Rączy, K., Ossandón, J. P., Rossion, B., Linke, M., van den Hurk, J., Heitmann, C., Guerreiro, M. J. S., Zhan, M., Goebel, R., Kekunnaya, R., Röder, B. (2025). Selective loss of face-selectivity after restoring sight in individuals born with congenital cataracts. Poster presented at the *23rd International Multisensory Research Forum (IMRF 2025), Durham, UK, July 15-18, 2025*.
- A329. Rekow, D., Arya, T., Bayir, D., Röder, B. (2025). In the blink of an eye: Neural face selectivity at a single glance emerges with adapted natural stimuli as early as 2 months of age. Poster presented at the *Budapest CEU Conference on Cognitive Development, BCCCD25, Budapest, Hungary, January 9-11, 2025*.

### 2024

- A328. Abbasi, H., King, C.D., Lovich, S., Röder, B., Groh, J.M., & Bruns, P. (2024). Dependence of eye movement-related eardrum oscillations (EMREO) on current sensory input and recent sensory experience. Poster presented at the *49th Annual*

*Meeting „Psychologie und Gehirn“ (PuG), Hamburg, Germany, May 29-June 6, 2024.*

- A327. Bruns, P., & Röder, B. (2024). Improvement of sound localization after spatially congruent audiovisual exposure: A special case of crossmodal recalibration or higher-order visual location learning? Talk presented at the *50th Jahrestagung für Akustik (DAGA), Hanover, Germany, March 18-21, 2024*.
- A326. Bruns, P., & Röder, B. (2024). Simon effect reveals crossmodal spatial binding based on emotional congruence in audiovisual speech perception. Poster presented at the *65th Annual Meeting of the Psychonomic Society, New York, USA, November 21-24, 2024*.
- A325. Höttig, K., Kuhne. L.A., Ksiezarczyk, A., Braumann, K.-M., Reer, R., Jacobs, T., & Röder, B. (2024). Exercise-induced increase in cytokine levels correlates with implicit learning in young adults. Poster presented at the *53th Congress of the German Psychological Society (DGPs), Vienna (Austria), September 16-19, 2024*.
- A324. Kubetschek, C., Röder, B., & Bruns. P. (2024). Effects of visual saliency on the processing of audiovisual spatial information: An EEG study. Poster presented at the *49th Annual Meeting „Psychologie und Gehirn“ (PuG), Hamburg, Germany, May 29-June 6, 2024*.
- A323. Pant, R., Pitchaimuthu K., Ossandón J.P., Shareef I., Lingareddy S., Finsterbusch J., Kekunnaya R., & Röder B, (2024). Altered visual cortex excitatory/inhibitory ratio following transient congenital visual deprivation in humans. Poster presented at the *49th Annual Meeting „Psychologie und Gehirn“ (PuG), Hamburg, Germany, May 29-June 6, 2024*.
- A322. Rączy, K., Linke, M., van den Hurk, J., Heitmann, C., Guerreiro, M., Zhan, M., Kekunnaya, R., Goebel, R., Röder, B. (2024). Color-preferring regions of the ventral visual stream emerge after sight restoration in congenitally blind humans. Poster presented at the *49th Annual Meeting „Psychologie und Gehirn“ (PuG), Hamburg, Germany, May 29-June 6, 2024*.
- A321. Rekow, D., Arya, T., Bayir, D., Röder, B. (2024). Enhancing the EEG automatic response to varied natural faces in adults and very young infants: an image set validation for low-acuity vision. Poster presented at *49th Annual Meeting „Psychologie und Gehirn“ (PuG), Hamburg, Germany, May 29-June 6, 2024*.
- A320. Sourav, S., Röder, B., Ambsdorf, F., Melissari, A., Arvaniti, M., & Vatakis, A. (2024). No Evidence That Sound-Shape Associations Influence Temporal Resolution in Humans: Five Non-Replications of Parise and Spence (2009) and Meta-Analyses. *Poster and Talk presented at the 49th Annual Meeting „Psychologie und Gehirn“ (PuG), Hamburg, Germany, May 29-June 6, 2024*.
- A319. Wienholz, A., Schönberger, D., Jonasson, N., Püppke, R., Bruns, P., Buckenmeier, I., Röder, B., & Hänel-Faulhaber, B. (2024). Differences in visual statistical learning in deaf and hard-of-hearing early and late signing children. Poster presented at the *Interdisciplinary Advances in Statistical Learning Conference, Basque Center on Cognition, Brain and Language, Donostia/San Sebastian (Spain), June 5-7, 2024*.

## 2023

- A318. Abbasi, H., King, C.D., Lovich, S., Röder, B., Groh, J. M., & Bruns, P. (2023). Audiovisual temporal recalibration modulates eye movement-related eardrum oscillations. Poster presented at the *21st International Multisensory Research Forum (IMRF), Brussels, Belgium, June 27-30, 2023*.
- A317. Bruns P., Ley, P., Badde, S., Lenarz, T., Kekunnaya, R., & Röder, B. (2023). Crossmodal temporal functions are unaffected by transient periods of blindness or deafness. Poster presented at the *21st International Multisensory Research Forum (IMRF), Brussels, Belgium, June 27-30, 2023*.
- A316. Feucht, M.E., Sourav, S., Kekunnaya, R., & Röder, B. (2023). EEG biomarkers based on task-related and resting state oscillatory activity for classifying sight restored individuals. Poster presented at the *Kongress der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Hamburg, Germany, March, 2-4, 2023*. *Clinical Neurophysiology*, 148, e63.
- A315. Kubetschek, C., Röder, & B., Bruns, P. (2023). Effects of crossmodal association learning on the processing of audiovisual spatial Information: an EEG study. Poster presented at the *21st International Multisensory Research Forum (IMRF), Brussels, Belgium, June 27-30, 2023*.
- A314. Ossandón, J. P., Stange, L., Gudi-Mindermann, H., Rimmele, J. M., Sourav, S., Kekunnaya, R., & Röder, B. (2023). Development of oscillatory and aperiodic resting state activity is linked to a sensitive period in humans. Poster presented at the *Kongress der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Hamburg, Germany, March, 2-4, 2023*. *Clinical Neurophysiology*, 148, e64.
- A313. Pant, R., Ossandón, J., Stange, L., Shareef, I., Kekunnaya, R. & Röder, B. (2023). Stimulus-evoked and endogenous alpha oscillations show a linked dependence on patterned visual experience for development. Talk at the *21st International Multisensory Research Forum (IMRF), Brussels, Belgium, June 27-30, 2023*.
- A312. Pant, R., Ossandón, J., Stange, L., Shareef, I., Kekunnaya, R., & Röder, B. (2023). Stimulus-evoked and resting-state alpha oscillations are jointly reduced in sight recovery individuals with a history of a congenital blindness. Poster presented at the *Kongress der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Hamburg, Germany, March, 2-4, 2023*. *Clinical Neurophysiology*, 148, e58.
- A311. Sourav, S., Kekunnaya, R., Bottari, D., Shareef, I., Pitchaimuthu, K., & Röder, B. (2023). Sound alters earliest visual cortical processing in sight-restored humans. Poster presented at the *Kongress der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Hamburg, Germany, March, 2-4, 2023*. *Clinical Neurophysiology*, 148, e60.

## 2022

- A310. Abbasi, H., King, C., Schlebusch, S., Röder, B., Groh, J., & Bruns, P. (2022). Eye movement-related eardrum oscillations do not require current visual input. Poster presented at the *20th International Multisensory Research Forum (IMRF), Ulm, Germany, July 4-7, 2022*.
- A309. Brockhaus, C., Zhan, M., Linke, M., Hölig, C., Kekunnaya, R., van Hoof, R., Goebel, R. & Röder, B. (2022). Differences in retinotopic organization of early visual areas after temporary congenital blindness. Poster presented at the *Annual Meeting of the Organization for Human Brain Mapping (OHBM), Glasgow, United Kingdom, June 19-23, 2022*.
- A308. Bruns, P., Li, L., Guerreiro, M.J.S., Shareef, I., Rajendran, S., Pitchaimuthu, K., Kekunnaya, R., & Röder, B. (2022). Audiovisual spatial integration and recalibration after sight restoration in humans. Talk at the *20th International Multisensory Research Forum (IMRF), Ulm, Germany, July 4-7, 2022*.
- A307. Höttig, K., Kuhne, L.A., Ksieczarczyk, A., Braumann, K.-M., Reer, R., Jacobs, T., & Röder, B. (2022). Exercise-induced increase in cytokine levels correlates with implicit learning in young adults. Poster presented at the *47<sup>th</sup> Annual Meeting „Psychologie und Gehirn“ (PuG), Freiburg, Germany, June 16-18, 2022*.
- A306. Kramer, A., Bruns, P., & Röder, B. (2022). Audio-visual spatial aftereffects are based on multisensory perception and approximately optimal recalibration. Poster presented at the *20th International Multisensory Research Forum (IMRF), Ulm, Germany, July 4-7, 2022*.
- A305. Ossandón, J. P., Zerr, P., Shareef, I., Kekunnaya, R., & Röder, B. (2022). Active vision in sight recovery individuals with a history of long-lasting congenital visual deprivation. Talk at the *21st European conference on eye movements (ECEM), Leceister, UK, August, 21-25, 2022*.
- A304. Pant, R., Ossandón, J., Stange, L., Shareef, I., Kekunnaya, R., & Röder, B. (2022). Stimulus-evoked and endogenous alpha oscillations show a linked dependence on patterned visual experience for development. *Journal of Vision*, 22(14), 3474-3474.
- A303. Schepanski, S., Zhang, T., Graute, S., Schönberger, D. K., Bonn, S., Heeren, J., Röder, B., Diemert, A., Hanganu-Opatz, I., & Arck, P. C. (2022). Prenatal immune challenges and cognitive development in childhood. Symposium talk at the *47<sup>th</sup> Annual Meeting „Psychologie und Gehirn“ (PuG), Freiburg, Germany, June 16-18, 2022*.
- A302. Rączy, K., Hölig, C., Guerreiro, M.J.S., Lingareddy, S., Kekunnaya, R., & Röder, B. (2022). Typical resting state activity of the brain requires visual input during an early sensitive period. Poster presented at the *20th International Multisensory Research Forum (IMRF), Ulm, Germany, July 4-7, 2022*.
- A301. Rimmele, J., Lubinus, C., Orpella, J., Keitel, A., Gudi-Mindermann, H., Engel, A., & Röder, B. (2022). Data-driven classification of spectral profiles reveals brain region-specific plasticity. Talk at the *20th International Multisensory Research Forum (IMRF), Ulm, Germany, July 4-7, 2022*.

- A300. Röder, B. (2022). Brain mechanism of sight recovery. *Acta Ophthalmologica*, 100 (S275: Abstracts from the 2022 European Association for Vision and Eye Research Festival, 13-15 October 2022, Valencia). <https://doi.org/10.1111/j.1755-3768.2022.15620>
- A299. Röder, B., Dormal, G., Sourav, S., Shareef, I., Rajendran, S., Kekunnaya, R., & Pitchaimuthu, K. (2022). Visual and crossmodal activation after sight restoration in humans. Talk at the *20th International Multisensory Research Forum (IMRF)*, Ulm, Germany, July 4-7, 2022.
- A298. Schönberger, D. K., Bruns, P., & Röder, B. (2022). Visual sequence relearning after a one-year delay in 7-year-olds and adults. Poster presented at the *International Advances in Statistical Learning Conference 2022*. Donostia/San Sebastian, Spain, June 1-3, 2022.
- A297. Sourav, S., Röder, B., Ambsdorf, F., Melissari, A., Arvaniti, M., & Vatakis, A. (2022). Five Experiments, Including a Pre-Registered Replication, and Mini Meta-Analyses Find No Evidence That Sound-Shape Associations Modulate Audiovisual Temporal Order Judgements. Poster presented at the *20th International Multisensory Research Forum (IMRF)*, Ulm, Germany, July 4-7, 2022.
- A296. Stange, L., Ossandón, J., & Röder, B. (2022). Time course and specificity of crossmodal prediction in visual cortex. Talk at the *20th International Multisensory Research Forum (IMRF)*, Ulm, Germany, July 4-7, 2022.
- A295. Storm, S., Bruns, P., & Röder, B. (2022). The Effects of Stimulus Salience dominate audio-visual Spatial Integration both in children and adults. Poster presented at the *20th International Multisensory Research Forum (IMRF)*, Ulm, Germany, July 4-7, 2022.

## 2021

- A294. Höttig, K., Rogge, A.-K., & Röder, B. (2021). Structural brain plasticity after balance training in blind and sighted humans. *Sports, Medicine and Health Summit 2021, virtual congress*, April 20-24, 2021.
- A293. Schönberger, D. K., Fuchs, M., Bruns, P., & Röder, B. (2021). Repeated visual sequence learning and transfer to new surface features in 7-year-olds and adults. Poster presented at the *Biennial Meeting of the Society of Research in Child Development (SRCD21)*. virtual, April 7-9, 2021.

## 2020

- A292. Schönberger, D. K., Bruns, P., & Röder, B. (2020). Visual sequence learning in children: Piloting an adaptive artificial grammar learning task. Poster presented at the *Conference on Cognitive Development (BCCCD20)*. Budapest, Hungary, January 9-11, 2020.

## 2019

- A291. Bruns, P., & Röder, B. (2019). Visual recalibration of auditory spatial perception decays at different time scales. *Proceedings of the 23rd International Congress on Acoustics, Aachen, Germany, September 9-23, 2019*, 3915-3920.
- A290. Hänel-Faulhaber, B., Groen, M., Röder, B., & Friedrich, C. (2019). Foundations of reading in bimodal-bilingual deaf children: ERP evidence. Poster presented at the *Child Language Symposium, Sheffield, UK, July 10-12, 2019*.
- A289. Hölig, C., Guerreiro, M. J. S., Shareef, I., Lingareddy, S., Kekunnaya, R., & Röder, B. (2019). Cortical thickness in sight-recovery and congenitally blind individuals. Poster presented at the *Annual Meeting of the Society for Neuroscience (SfN), Chicago, IL, USA, October 19-23, 2019*.
- A288. Overvliet, K., Postma, A., Röder, B. (2019). Developmental trajectory and visual dependence in the use of different features in haptic object perception. Poster presented at the *42<sup>nd</sup> European Conference on Visual Perception, Leuven, Belgium, August 25-29, 2019*.
- A287. Stange, L., Ossandón, J., & Röder, B. (2019). Time course and spatial specificity of top-down visual predictions. Poster at the Systems Neuroscience Symposium (SNS), Tübingen, Germany, September 14-15, 2019.
- A286. Zerr, P., Ossandón, J., Kekunnaya, R., Shareef, I., Pitchaimuthu, K., van der Stigchel, S., & Röder, B. (2019). Eye movements in the formally blind. Oral presentation at the *42<sup>nd</sup> European Conference on Visual Perception, Leuven, Belgium, August 25-29, 2019*.

## 2018

- A285. Badde, S., Röder, B., & Heed, T. (2018). Feeling a touch to the hand on the foot. Talk at the *19th International Multisensory Research Forum (IMRF), Toronto, Canada, June 14-17, 2018*.
- A284. Badde, S., Landy, M.-S., Röder, B., & Bruns, P. (2018). The determinants of cross-modal learning: Insights from the ventriloquism aftereffect. Talk at the Invited Symposium “Multisensory processing and the neglected senses – an appetizer”. *51<sup>st</sup> Meeting of the German Psychological Society (DGPs), Frankfurt am Main (Germany), September 15-20, 2018*.
- A283. Bednaya, E., Bottari, D., Dormal, G., Villwock, A., Dzhelyova, M., Grin, K., Pietrini, P., Ricciardi, E., Rossion, B., & Röder, B. (2018). Face processing in congenitally deaf signers. *BCBL WoRLD, San Sebastian, Spain, October 18-20, 2018*.
- A282. Bottari, D., Kekunnaya, R., Hense, M., Troje, N.F., Sourav, S., & Röder, B. (2018). Motion processing after sight restoration: No competition between visual recovery and auditory compensation. Poster presented at the *19th International Multisensory Research Forum (IMRF), Toronto, Canada, June 14-17, 2018*.
- A281. Bruns, P. & Röder, B. (2018). Differential effects of the temporal and spatial distribution of audiovisual stimuli on cross-modal spatial recalibration. Talk at the

*19th International Multisensory Research Forum (IMRF), Toronto, Canada, June 14-17, 2018.*

- A280. Fengler, I., Müller, J., & Röder, B. (2018). Auditory and visual motion adaptation in congenitally deaf cochlear implant users: Evidence for typical crossmodal aftereffects. Poster presented at the *15<sup>th</sup> CI2018 Conference, Antwerpen, Belgium, June 27-30, 2018.*
- A279. Hänel-Faulhaber, B., Groen, M., Röder, B. & Friedrich, C. (2018). Neural foundation of reading in bimodal-bilingual deaf children. *ICSLA 2018: 20th International Conference on Sign Language and Acquisition, Toronto, Canada, June 21-22, 2018.*
- A278. Pitchaimuthu, K., Sourav, S., Bottari, D., Banerjee, S., Shareef, I., Kekunnaya, R., & Röder, B. (2018). Color vision in sight recovery individuals. Poster presented at the *5th International Conference "Low Vision and the Brain", Berlin, Germany, November 30 – December 2, 2018.*
- A277. Röder, B., Sourav, S., Kekunnaya, R., & Bottari, D. (2018). Visual and multisensory recovery in humans with a history of visual deprivation from birth. *11<sup>th</sup> FENS Forum of Neuroscience, Berlin, Germany, July 7-11, 2018.*
- A276. Rogge, A.-K., Höttig, K., Nagel, V., Zech, A., Hölig, C. & Röder, B. (2018). Balance training in the blind: Structural plasticity in vestibular and proprioceptive regions. Poster presented at the *Blind Brain Workshop on the Sensory Deprived Brain, Lucca, Italy, October 11-13, 2018.*
- A275. Rogge, A.-K., Röder, B., Zech, A., & Höttig, K. (2018). Exercise-induced neuroplasticity: Effects of a balance training. Talk at the *51. Kongress der Deutschen Gesellschaft für Psychologie, Frankfurt, Germany, October 17-20, 2018.*
- A274. Sourav, S., Bottari, D., Kekunnaya, R., & Röder, B. (2018). The P1 Wave as highly specific diagnostic biomarker for bilateral congenital visual deprivation. Poster presented at the *Blind Brain Workshop on the Sensory Deprived Brain, Lucca, Italy, October 11-13, 2018.*
- A273. Stroh, A.-L., Bottari, D., Grin, K., Rösler, F., & Röder, B. (2018). Steady-state visual evoked potentials in deaf and hearing individuals indicate an experience-dependence of the optimal driving rate. Poster presented at the *OSA Fall Vision Meeting, Reno, NV, USA, September 21-23, 2018.*
- A272. Stroh, A.-L., Overvliet, K., Rösler, F., & Röder, B. (2018). Visuo-motor skills in deaf native signers. Poster presented at *BCBL WoRLD, San Sebastian, Spain, October 18-20, 2018.*
- A271. Tong, J., Bruns, P., Kanellou, A., & Röder, B. (2018). Crossmodal associations modulate multisensory integration: modifying causal priors of simple auditory and visual stimuli. Poster presented at the *19th International Multisensory Research Forum (IMRF), Toronto, Canada, June 14-17, 2018.*
- A270. Topalidis, P., Schenk, T., Röder, B., & Föcker, J. (2018). Is attention necessary in order to process vocal prosody in congenitally blind individuals? *Visual Search and Selective Attention (VSSA4), Munich / Ammersee, July 13th-16th, 2018.*

- A269. Zerr, P., Kekunnaya, R., Shareef, I., Pitchaimuthu, K., van der Stigchel, S., Röder, B., & Ossandón, J. (2018). Eye tracker calibration in individuals with highly unstable gaze due to involuntary nystagmus. Poster presented at the *41<sup>st</sup> European Conference on Visual Perception ECVP, Trieste, Italy, August 26-30, 2018*.

## 2017

- A268. Bruns, P. & Röder, B. (2017). Repeated (but not incremental) training enhances cross-modal recalibration in the ventriloquism aftereffect. Poster presented at the *18<sup>th</sup> International Multisensory Research Forum (IMRF), Nashville, USA, May 19-22, 2017*.
- A267. Fengler, I., Nava, E., Delfau, P.-C., Villwock, A., & Röder, B. (2017). Auditory, visual, and auditory-visual emotion recognition in cochlear implant recipients. Talk presented at the *59<sup>th</sup> Conference of Experimental Psychologists (TeaP), Dresden, Germany, March 26-29, 2017*.
- A266. Guerreiro, M. J. S., Putzar, L., Goebel, R., Kekunnaya, R., & Röder, B. (2017). Structural brain changes in cataract reversal individuals. *Poster presented at the 4<sup>th</sup> World Congress of Paediatric Ophthalmology and Strabismus, Hyderabad, India, December 1-3, 2017*.
- A265. Höttig, K., Rogge, A-K., Zech, A., Nagel, V., Hollander, K., Braumann, K-M., & Röder, B. (2017). Bewegung und neuronale Plastizität: Ein Balancetraining steigert das Gedächtnis und räumliche Kognition. *49. Jahrestagung der Arbeitsgemeinschaft Sportpsychologie (asp), „Gelingende Entwicklung im Lebenslauf, Bern, Switzerland, May, 25-27, 2017*.
- A264. Höttig, K., Hölig, C., & Röder, B. (2017). Physical exercise prevents hippocampal volume loss in middle-aged adults. *13. International Conference for Cognitive Neuroscience (ICON), Amsterdam, The Netherlands, August 8, 2017*.
- A263. Li, X., Röder, B., & Zhang, J. (2017). An EEG based event-related complexity method for cognitive research. *2<sup>nd</sup> International Conference on Big Data Analysis (ICBDA), Beijing, China, March 10-12, 2017*.
- A262. Röder, B. (2017). The challenge to learn in development vs. adulthood. *INSA-Leopoldina Symposium, Hyderabad, India, November 28-29, 2017*.
- A261. Röder, B., Guerreiro, M. Putzar, L., Sourav, S., Bottari, D., & Kekunnaya, R. (2017). Neural mechanisms of visual recovery and crossmodal compensation after removing congenital total cataracts. *4<sup>th</sup> World Congress of Paediatric Ophthalmology and Strabismus, Hyderabad, India, December 1-3, 2017*.
- A260. Rohlf, S., Habets, B., Frieling, M.v., & Röder, B. (2017). Crossmodal learning mechanisms change from development to adulthood. *18<sup>th</sup> International Multisensory Research Forum (IMRF), Nashville, TN, USA, May 19-22, 2017*.

## 2016

- A259. Badde, S., Ley, P., Röder, B. (2016). Triggering the use of external space in congenitally blind individuals. *CNS 2016 Annual Meeting, New York, USA, April 2-5, 2016.*
- A258. Badde, S., Thomaschewski, L., Stoffregen, H., & Röder, B. (2016). Adapting to visual and auditory low frequency stimuli induces enhanced tactile frequency discrimination within the same frequency range. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience (SfN), San Diego, Nov 12-16, 2016.*
- A257. Balachandar, R., Guerreiro, M.J.S., Kekunnaya, R., & Röder, B. (2016). "Hippocampal shape changes after sight restoration in congenital dense cataract patients." *10<sup>th</sup> Forum of the Federation of European Neurosciences Societies, Copenhagen, Denmark, July 2-6, 2016.*
- A256. Bottari, D., Troje, N.F., Hense, M., Kekunnaya, R., & Röder, B. (2016). "Independent developmental trajectories for biological motion and face processing". *Oral presentation at the Indian association for research in vision and ophthalmology (ARVO-India; Hyderabad, India), July 30-31, 2016.*
- A255. Bottari, D., Troje, N.F., Hense, M., Kekunnaya, R., & Röder, B. (2016). "The critical role of early visual input for the emergence of human alpha oscillatory activity". *Workshop on Early Experience and Sensitive Periods in Development, Ettore Majorana Foundation, Erice Italy, Aug 31 - Sept. 2016.*
- A254. Bottari, D., Kekunnaya, R., Hense, M., Sourav, S., Balachandar, R., Troje, N.F., & Röder, B. (2016). The effect of a transient congenital visual deprivation on the neural systems for visual and sound motion processing. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience (SfN), San Diego, Nov 12-16, 2016.*
- A253. Bruns, P., Röder, B., & Badde, S. (2016). Interactions between time and space in tactile temporal order judgements are mediated by motion signals. *57<sup>th</sup> Annual Meeting of the Psychonomic Society, Boston, MA, USA, Nov 17-20, 2016.*
- A252. Fengler, I., Bottari, D., Sourav, S., Villwock, A., & Röder, B. (2016). Intra- and multisensory interactions in congenitally deaf CI users. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience, November 12-16, San Diego, CA, USA.*
- A251. Guerreiro, M. J. S., Putzar, L., & Röder, B. (2016). Recovery of visual influence on auditory motion processing despite persisting cross-modal changes in sight-recovery individuals. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience, November 12-16, San Diego, CA, USA.*
- A250. Rimmele, J.M., Gudi-Mindermann, H., Nolte, G., Röder, B. & Engel, A.K. (2016). Neuroplasticity in the congenitally blind: Large-scale interactions during working memory processing and training. Poster presented at the *23<sup>rd</sup> Annual Meeting of the Cognitive Science Society, New York City, USA, April 2-5, 2016.*
- A249. Röder, B., Guerreiro, M., Sourav, S., Bottari, D., & Kekunnaya, R. (2016). Experience-dependent development of (multi)sensory functions. *XXXIV Annual Meeting of Indian Academy of Neuroscience, Manesa, India, October 19-21, 2016.*
- A248. Rogge, A-K., Röder, B., Zech, A., Nagel, V., Hollander, K., Braumann, K-M., & Höttig, K. (2016). Successful balance training improves memory. *10<sup>th</sup> Forum of*

*the Federation of European Neurosciences Societies, Copenhagen, Denmark, July 2-6, 2016.*

- A247. Rogge, A-K., Röder, B., Zech, A., Nagel, V., Hollander, K., Braumann, K-M., & Höttig, K. (2016). Successful balance training improves memory and spatial cognition. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience (SfN), San Diego, Nov 12-16, 2016.*
- A246. Rohlf, Sophie, Habets, B., & Röder, B. (2016). Multisensory learning through passive exposure in six-months-old infants. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience, November 12-16, San Diego, CA, USA.*
- A245. Sourav, S., Bottari, D., Balachandar, R., Kekunnaya, R., & Röder, B. (2016). Evidence for an intact retinotopic organization of early visual cortex but impaired extrastriate processing in sight recovery individuals. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience (SfN), San Diego, Nov 12-16, 2016.*
- A244. Stroh, A.-L., Rösler, F., Dormal, G., Skotara, N., Hänel-Faulhaber, B., & Röder, B. (2016). Neural correlates of semantic and syntactic processing in sign language. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience, November 12-16, San Diego, CA, USA.*
- A243. Sürig, R., Bottari, D., & Röder, B. (2016). Transfer of audio-visual training. *46<sup>th</sup> Annual Meeting of the Society for Neuroscience, November 12-16, San Diego, CA, USA.*
- A242. Villwock, A., Bottari, D., & Röder, B. (2016). The impact of congenital deafness on visuo-tactile motion processing. *Multimodal Multilingual Outcomes in Deaf and Hard-of-Hearing Children Workshop*, Stockholm, Sweden, June 12-16, 2016.

## 2015

- A241. Badde, S., Röder, B., & Heed, T. (2015). Assigning a touch on the hand to a foot: post hoc construction of tactile location. *45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.*
- A240. Bottari, D., Troje, N.F., Ley, P. Hense, M., Kekunnaya, R., & Röder, B. (2015). Sensitive periods for the functional specialization of visual processes. Independent developmental trajectories for biological motion and face processing. *16<sup>th</sup> International Multisensory Research Forum (IMRF), Pisa, Italy, June 13-16, 2015.*
- A239. Bruns, P. & Röder, B. (2015). Cross-modal recalibration integrates local and global stimulus history. *16<sup>th</sup> International Multisensory Research Forum (IMRF), Pisa, Italy, June 13-16, 2015.*
- A238. Fengler, I., Villwock, A., Höfer, M., Lenarz, T. & Röder, B. (2015). Visual, Auditory and visuo-auditory emotion perception in congenitally, early, and late deaf cochlear implant users. *16<sup>th</sup> International Multisensory Research Forum (IMRF), Pisa, Italy, June 13-16, 2015.*
- A237. Gudi, H., Rimmele, J., Bruns, P., Engel, A.K., & Röder, B. (2015). Enhanced cortical connectivity following working memory training – An EEG study in

- congenitally blind individuals. 16th International Multisensory Research Forum (IMRF), Pisa, Italy, June 13-16, 2015.
- A236. Gudi, H., Rimmele, J. Bruns, P., Engel, A.K., & Röder, B. (2015). Load-dependent versus training-induced power changes within the working memory network – An EEG study. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.
- A235. Guerreiro, M.J.S., Erfort, M.V., Henssler, J., Putzar, L. & Röder, B. (2015). Increased visual cortical thickness in sight-recovery individuals. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.
- A234. Heed, T. Röder, B., Badde, S. (2015). Assigning a torch on the hand to a foot: post hoc construction of tactile location. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.
- A233. Hense, M., Badde, S., Köhne, S., Habich, J., Dziobek, I., Röder, B. (2015). Tactile and crossmodal localization in adults with autism spectrum disorder. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.
- A232. Rimmele, J., Gudi, H., Nolte, G., Röder, B., & Engel, A.K. (2015). Neuroplasticity in the congenitally blind: Working memory training alters large-scale interactions of visual cortex. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.
- A231. Röder, B., Putzar, L., & Guerreiro, M. (2015). Altered multisensory processing after a transient period of total blindness from birth. 16th International Multisensory Research Forum (IMRF), Pisa, Italy, June 13-16, 2015.
- A230. Röder, B., Putzar, L., & Guerreiro, M. (2015). Neural correlates of functional recovery in humans with a history of visual deprivation from birth. 9<sup>th</sup> Meeting of the International Brain Research Organisation. July 7-11, 2015.
- A229. Rohlf, S., Habets, B., & Röder, B. (2015). Multisensory learning through passive audio-visual stimulation in six months old infants. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.
- A228. Schubert, J.T.W., Badde, S., Röder, B., & Heed, T. (2015). Flexible use of spatial reference frames for touch in sighted and congenitally blind individuals. 16th International Multisensory Research Forum (IMRF), Pisa, Italy, June 13-16, 2015.
- A227. Zierul, B.H., Röder, B., Tempelmann, C., & Noesselt, T. (2015). The role of auditory cortex in the audiovisual ventriloquist aftereffect. 45<sup>th</sup> Meeting of the Society for Neuroscience, Chicago, USA, October 17-21, 2015.

## 2014

- A226. Badde, S., Heed, T., & Röder, B. (2014). Top-down controlled integration of tactile reference frames. 56. Tagung experimentell-arbeitender Psychologen, Giessen, Germany, March 31-April 2, 2014.
- A225. Bruns, P., Maiworm, M., & Röder, B. (2014). Reward expectation influences audiovisual spatial integration. Talk presented at the 56<sup>th</sup> Conference of Experimental Psychologists (TeaP), Giessen, Germany, March 31 – April 2, 2014

- A224. Gudi, H., Rimmele, J., Kloostermann, N.A., Donner, T.H., Engel, A., & Röder, B. (2014). Fronto-parietal gamma-band activity is modulated by working memory training. Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014.
- A223. Gudi, H., Rimmele, J., Kloostermann, N.A., Donner, T.H., Engel, A., & Röder, B. (2014). The functional role of theta-band activity before and after working memory training. *40<sup>th</sup> Annual Meeting "Psychologie und Gehirn", Lübeck, Germany, June 19-21, 2014*.
- A222. Guerreiro, M.J.S., Putzar, L., & Röder, B. (2014). The effect of early visual deprivation on the neural bases of multisensory processing. 44<sup>th</sup> Meeting of the Society for Neuroscience, Washington D.C., USA, November 15-19, 2014.
- A221. Habets, B., Frielink, M., & Röder, B. (2014). Multisensory learning through exposure. 15<sup>th</sup> International Multisensory Research Forum (IMRF), Amsterdam, The Netherlands, June 11-14, 2014.
- A220. Heed, T., Schubert, J.T.W., & Röder, B. (2014). Flexible Integration of spatial information depends on developmental vision. 15<sup>th</sup> International Multisensory Research Forum (IMRF), Amsterdam, The Netherlands, June 11-14, 2014.
- A219. Hölig, C., Föcker, J., Best, A., Röder, B., & Büchel, C. (2014). Brain systems mediating crossmodal interactions during person recognition. Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014.
- A218. Mania, P. A., Schneider, T.R., Engel, A.K., Röder, B., & Heed, T. (2014). Direction-selective gamma band synchronization in PPC differs between hand and foot movement planning. Annual Meeting of the Society for the Neural Control of Movement, Amsterdam, The Netherlands, April 22-25, 2014.
- A217. Mania, P. A., Schneider, T.R., Engel, A.K., Röder, B., & Heed, T. (2014). Direction-selective gamma band synchronization in PPC differs between hand and foot movement planning. *40<sup>th</sup> Annual Meeting "Psychologie und Gehirn", Lübeck, Germany, June 19-21, 2014*.
- A216. Röder, B. (2014). Multisensorische Verarbeitung beim Menschen. Annual Meeting of the German Academy of Science Leopoldina, Halle, Germany, September 19-21, 2014.
- A215. Schubert, J.T.W., Buchholz, V.N., Föcker, J., Engel, A.K., Röder, B., & Heed, T. (2014). Oscillatory activity in the alpha and beta range reflect tactile spatial coordinates. *40<sup>th</sup> Annual Meeting "Psychologie und Gehirn", Lübeck, Germany, June 19-21, 2014*.
- A214. Schubert, J.T.W., Buchholz, V.N., Föcker, J., Engel, A.K., Röder, B., & Heed, T. (2014). EEG source-level oscillations reflect tactile spatial coordinates in sighted and in blind humans. Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014.
- A213. Sürig, R., Bottari, D., & Röder, B. (2014). Transfer of audio-visual training. 15<sup>th</sup> International Multisensory Research Forum (IMRF), Amsterdam, The Netherlands, June 11-14, 2014.

- A212. Villwock, A.K., Bottari, D., Röder, B. (2014). Visual processing in human striate cortex as a result of congenital deafness. 44<sup>th</sup> Meeting of the Society for Neuroscience, Washington, D.C., November 15-19, 2014.

## 2013

- A211. Badde, S., Heed, T., & Röder, B. (2013). Touch localization under coordinate conflict. *Congress of the German Neuroscience Society, Göttingen, Germany, March 13-16, 2013.*
- A210. Badde, S., Heed, T., & Röder, B. (2013). Modelling body posture effects on reference frame integration. In: *Multisensory Research. Volume 26, Abstracts of the 14th International Multisensory Research Forum, The Hebrew University in Jerusalem, Israel, June 3-6, 2013.*
- A209. Bottari, D., Ley, P., Shenoy, B.H., Kekunnaya, R., & Röder, B. (2013). Sensitive periods for the functional specialization of multisensory and visual processes. Invited speaker at the symposium Functional Consequences of Sensory Loss and Restoration. FENS Regional meeting, Prague; September 13, 2013.
- A208. Bottari, D., Troje, N., Ley, P., Shenoy, B.H., Kekunnaya, R., & Röder, B. (2013). Early visual experience is necessary to shape global motion neural system but not biological motion. *Annual meeting of the Society for Neuroscience (SfN), San Diego, USA, November, 9-13, 2013.*
- A207. Bruns, P., Renzi, C., Heise, K.-F., Zimerman, M., Feldheim, J.-F., Hummel, F. C., & Röder, B. (2013). Spatial remapping in the audio-tactile ventriloquism effect: a TMS investigation on the role of the ventral intraparietal area. *5<sup>th</sup> International Conference on Non-Invasive Brain Stimulation, Leipzig, Germany, March 19-21, 2013.*
- A206. Johannsen, J., Gädeke, J., Pagel, B., & Röder, B. (2013). Intra and crossmodal refractory period effects in healthy children and adults: An ERP study. *39<sup>th</sup> annual meeting of the Society of Neuropediatrics, Innsbruck, Austria, April 25-28, 2013,*
- A205. Ley, P. & Röder, B. (2013). Dissociating sensory attention and motor preparation: an ERP study. In: *Multisensory Research. Volume 26, Abstracts of the 14th International Multisensory Research Forum, The Hebrew University in Jerusalem, Israel, June 3-6, 2013.*
- A204. Röder, B. (2013) Spatial remapping of sensory input depends on early visual input. *Biennial Meeting of the Society for Research in Child Development. Seattle, April 18-21, 2013.*
- A203. Röder, B., Ley, P., Shenoy, H.S., Kekunnaya, R., & Bottari, D. (2013). Functional recovery in cataract-reversal patients: Behavioral indices and neural correlates. *Asian ARVO, New Delhi, October 28-31, 2013.*
- A202. Schild, U., Röder, B., & Friedrich, C. (2013). Stress and phonemes processing in word comprehension in pre-reading preschoolers to beginning readers. *WILD – Workshop on infant language development of the Basque Center on Cognition, Brain and Languages, June 20-22, 2013.*

- A201. Schubert, J., Heed, T., Föcker, J., & Röder, B. (2013). External spatial coordinates for tactile spatial attention are reflected in prestimulus oscillations in sighted but not in blind individuals. *International Multisensory Research Forum (IMRF), Jerusalem, Israel, June 3-6, 2010.*
- A200. Sieben, K., Röder, B., & Hanganu-Opatz, I. (2013). The development of cross-modal processing in the rat primary somatosensory cortex. *Congress of the German Neuroscience Society, Göttingen, Germany, March 13-16, 2013.*

## 2012

- A199. Badde, S., Heed, T., & Röder, B. (2012). Touch remapping is automatic but top-down modulated. *Annual Meeting of the Society for Neuroscience (SfN), New Orleans, USA, October 13-17, 2012.*
- A198. Bottari, D., Rohlf, S., Hense, M., Habets, B., & Röder, B. (2012). Intramodal and crossmodal refractory effects: Evidence from oscillatory brain activity. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012.*
- A197. Bottari, D., Ley, P., Shenoy, B.H., Kekunnaya, R., & Röder, B. (2012). Early visual experience for the development of the neural systems relating to holistic face processing. *Annual Meeting of the Society for Neuroscience (SfN), New Orleans, USA, October 13-17, 2012.*
- A196. Bruns, P., Camargo, C.J., Campanella, H., Esteve, J., & Röder, B. (2012). Tactile acuity charts: a reliable measure of spatial resolution. *54<sup>th</sup> Tagung experimentell arbeitender Psychologen (TeaP), Mannheim, Germany, April 1-4, 2012.*
- A195. Bruns, P. & Röder, B. (2012). Frequency and specificity of the ventriloquism aftereffect revisited. *4<sup>th</sup> International Conference on Auditory Cortex, Lausanne, Switzerland, September 1-3, 2012.*
- A194. Habets, B., Hense, M., Bottari, D., & Röder, B. (2012). Intra- and crossmodal refractory effects in auditory and somatosensory ERPs. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012.*
- A193. Heed, T. & Röder, B. (2012). Spatial codes for movement coordination do not depend on developmental vision. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012.*
- A192. Hense, M., Habets, B., & Röder, B. (2012). Recovery periods of event-related potentials indicating crossmodal interactions between the visual, auditory and tactile system. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012.*
- A191. Höttig, K., Holzsneider, K. & Röder, B. (2012). A combined physical exercise and cognitive training modulate functional brain activations during spatial learning.

48. Kongress der Deutschen Gesellschaft für Psychologie, Bielefeld, Germany, September 23.-27, 2012.
- A190. Juravle, G., Heed, T., Spence, Ch., & Röder, B. (2012). Electrophysiological correlates of tactile and visual perception during goal-directed movement. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012*.
- A189. Ley, P., Bottari, D., Hariprasad Shenoy, B., Kekunnaya, R., & Röder, B. (2012). In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012*.
- A188. Ley, P., Bottari, D., Shenoy, B.H., Hoetting, K., Kekunnaya, R., & Röder, B. (2012). Restricted recovery of external remapping of tactile stimuli after restoring vision in a congenitally blind man. *Annual Meeting of the Society for Neuroscience (SfN), New Orleans, USA, October 13-17, 2012*.
- A187. Maiworm, M., Bellantoni, M., Spence, Ch., & Röder, B. (2012). The size of the ventriloquist effect is modulated by emotional valence. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012*.
- A186. Röder, B., Pagel, B., & Heed, T. (2012). The development of intramodal and crossmodal temporal order judgments. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012*.
- A185. Schild, U., Röder, B.,& Friedrich, C.K. Word stress and phoneme processing in congenitally blind adults. *CNS Annual Meeting, Chicago, USA, March 31 - April 03, 2012*.
- A184. Schild, U., Röder, B. & Friedrich, C.K. (2012). Independent processing of stress and phonemes in reading and non-reading children. *Neurobiology of Language Conference, San Sebastian, October 25-27, 2012*.
- A183. Schubert, J., Röder, B., & Heed, T. (2012). Remapping of touch in the blind for current, but not for planned postures. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012*.
- A182. Sieben, K., Röder, B., & Hanganu-Opatz, I., (2012). Crossmodal stimulation influences communication in visual-somatosensory cortical networks of Brown Norway rat. In: *Seeing and Perceiving. Volume 25, Abstracts of the 13th International Multisensory Research Forum, University of Oxford, UK, June 19–22, 2012*.

## 2011

- A181. Bottari, D., Schneider, T., Engel, A., & Röder, B. (2011). Independency of language by the modality of acquisition and transmission: confirms from oscillations. *Munich Multisensory Perception Symposium, Holzhausen, Germany, June 24.-26, 2011*.

- A180. Bruns, P., Liebnau, R., & Röder, B. (2011). Elektrophysiologische Korrelate des Ventriloquismus-Nacheffekts. *37<sup>th</sup> Annual Meeting "Psychologie und Gehirn", Heidelberg, Germany, June 23-25, 2011.*
- A179. Föcker, J., Best, A., Hölig, C. & Röder, B. (2011). Neural plasticity of voice processing: Evidence from event-related potentials in congenitally blind and sighted controls. *FENS IBRO Summer School, Lausanne, Geneva, Switzerland, August 28 – September 16, 2011.*
- A178. Heed, T., Leone, F., Toni, I., Röder, B., Medendorp, P. (2011). Testing effector specificity in posterior parietal cortex with repetition suppression fMRI. *Annual Meeting of the Society for Neuroscience (SfN), Washington D.C., USA, Nov. 12-16, 2011.*
- A177. Höttig K., Holzschneider K., & Röder B (2011). Effects of physical exercise and a cognitive training on cognition and functional brain activations in middle-aged humans. *Front. Hum. Neurosci. Conference Abstract: XI International Conference on Cognitive Neuroscience (ICON XI). doi: 10.3389/conf.fnhum.2011.207.00607.*
- A176. Kassuba, T., Klinge C., Hölig C., Röder B., & Siebner H.R. (2011). Shaping visuo-haptic object representations with rTMS - an offline rTMS-fMRI study. *2<sup>nd</sup> North American Meeting on TMS and Neuroimaging in Cognition and Behavior, Quebec City, Canada, June 24-25, 2011.*
- A175. Kassuba, T., Menz M.M., Röder B., & Siebner H.R. (2011). Audio-haptic binding of conceptual object information. *Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Canada, June 26-30, 2011.*
- A174. Nava, E., Güntürkün, O. & Röder, Brigitte (2011). Blind kiss: Lateralised behaviour in blind individuals. *Munich Multisensory Perception Symposium, Holzhausen, Germany, June 24.-26, 2011.*

## 2010

- A173. Bruns, P., Liebnau, R., & Röder, B. (2010). Electrophysiological correlates of the ventriloquism aftereffect in humans. Poster presented at the *40<sup>th</sup> Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA, USA, November 13-17, 2010.*
- A172. Bruns, P., Spence, C., & Röder, B. (2010). Taktile Rekalibrierung auditiver Raumrepräsentationen. In: C. Frings, A. Mecklinger, D. Wentura, & H. Zimmer (Eds.), *Beiträge zur 52. Tagung experimentell arbeitender Psychologen: 22. bis 24. März 2010 in Saarbrücken* (p. 25). Lengerich: Pabst Science Publishers.
- A171. Heed, T. & Röder, B. (2010). Eigenschaften und Entwicklung multisensorischer räumlicher Koordinatensysteme am Beispiel des Tastsinns. *47. Meeting of the German Society for Psychology, September, 26-30, 2010, Bremen, Germany.*
- A170. Heed, T., Röder, B., Collins, T. (2010). Multisensory influences of motor-related reference frames. *International Multisensory Research Forum (IMRF), June 16-19, 2010, Liverpool, Great Britain.*
- A169. Hölig, C., Föcker, J., Best, A., Röder, B., Büchel, C. (2010). Voice Priming Effects

in the Fusiform Gyrus of the Blind. *Barcelona, 16th Annual Meeting of the Organization for Human Brain Mapping, June 6.-10, 2010.*

- A168. Höttig, K., Schauenburg, G. Holzsneider, K., Kauschke, K., Schmidt, T., Reer, R., Braumann, K.-M., & Röder, B. (2010). Long-term effects of physical exercise on cognition in humans. *7<sup>th</sup> Forum of European Neuroscience, July 3 – 7, 2010, Amsterdam, The Netherlands.*
- A167. Höttig, K., Schauenburg, G. Holzsneider, K., Kauschke, K., Schmidt, T., Reer, R., Braumann, K.-M., & Röder, B. (2010). Wie nachhaltig sind Effekte eines sechsmonatigen Bewegungstrainings auf Aufmerksamkeit und episodisches Gedächtnis im mittleren Erwachsenenalter? In: F. Petermann, H. & U. Koglin (Hrsg.), *47. Kongress der Deutschen Gesellschaft für Psychologie* (S. 212). Lengerich: Pabst Science Publishers.
- A166. Kassuba, T., Klinge, C.E., Hölig, C., Menz, M., Ptito, M., Röder, B., & Siebner, H.R. (2010). Sehen, Hören, und Ertasten von Objekten konvergieren im linken fusiformen Gyrus. In M.J. Naumer (Chair), *Neuronale Grundlagen der multisensorischen Objektwahrnehmung. Symposium conducted at the 36. Tagung 'Psychologie und Gehirn' der Deutschen Gesellschaft für Psychologie (DGP) und der Deutschen Gesellschaft für Psychophysiologie und ihre Anwendung (DGPA), June 10 – 12. 2010, Greifswald, Germany.*
- A165. Kassuba, T., Klinge, C.E., Hölig, C., Menz, M., Ptito, M., Röder, B., & Siebner, H.R. (2010). Left fusiform gyrus integrates visual, auditory and tactile cues of manipulable objects. *40th Annual Meeting of the Society for Neuroscience, November 13 – 17, 2010, San Diego, USA.*
- A164. Kügow, M., Skotara, N., Salden, U., Hänel-Faulhaber, B. & Röder, B. (2010). Bimodal bilingualism: Aspects of the functional organization of languages as revealed by German/German Sign Language bilinguals: An event-related potential study. *MIMS (Multilingual Individuals and Multilingual Societies), October 6 – 8, 2010, Hamburg, Germany.*
- A163. Occelli, V., Bruns, P., Zampini, M., & Röder, B. (2010). Audiotactile spatial ventriloquism in congenitally blind, late blind and sighted individuals. *Poster presented at the 11th International Multisensory Research Forum (IMRF), June 16-19, 2010, Liverpool, UK.*
- A162. Parise, C.V., Stewart, N., Föcker, J., Ngo, M., Röder, B., Spence, C., & Rogers, D. (2010). Emotional information enhances audio-visual speech integration. *International Multisensory Research Forum (IMRF), June 16-19, 2010, Liverpool, UK.*
- A161. Röder, B. (2010). Developmental plasticity of reference frames for touch. *Body Representation Workshop, Experimental Psychology Society, March 20 – 30, 2010, London, UK.*
- A160. Röder, B. (2010). Plasticity of language functions as a consequence of sensory deprivation. *International Neuropsychological Symposium, June 22-26, 2010. Ischia, Italy.*
- A159. Röder, B. & Bruns, P. (2010). Crossmodally generated shifts of auditory localization, *International Conference on Parietal lobe Functions, Amsterdam,*

*September 20-21, 2010.*

- A158. Röder, B. & Höttig, K. (2010). Bewegung und kognitive Leistungsfähigkeit. *8. Gemeinsames Symposium der dvs-Sektionen Biomechanik, Sportmotorik und Trainingswissenschaft, September 2 - 4, 2010, Hamburg, Germany.*
- A157. Schepers, I.M., Hipp, J.F., Schneider, T.R., Röder, B., Engel, A.K. (2010). Neural correlates of auditory processing in visual cortex of the blind. *Gordon Research Conference Neurobiology Of Cognition, August 01-06, 2010, Waterville Valley NH, USA.*
- A156. Schepers, I.M., Hipp, J.F., Schneider, T.R., Röder, B., Engel, A.K. (2010). Neural correlates of auditory processing in visual cortex of the blind. *Society for Neuroscience, November 13-17, 2010, San Diego, USA*
- A155. Schwarze, U., Reich, B., Holzschneider, K., Röder, B. & Höttig, K. (2010). Verbesserungen kognitiver Leistungen durch unterschiedliche Bewegungsprogramme im mittleren Lebensalter: eine Interventionsstudie. *Zeitschrift für Neuropsychologie, 21, 210.*
- A154. Zhang, L. & Röder, B. (2010). Effect of spatial attention on dynamic expression processing. *27<sup>th</sup> International Congress of Applied Psychology, July 11-16, 2010, Melbourne, Australia.*

## **2009**

- A153. Bruns, P. & Röder, B. (2009). Tactile capture of auditory localization: An event-related potential study. In A. B. Eder, K. Rothermund, S. R. Schweinberger, M. C. Steffens, & H. Wiese (Eds.), 51. Tagung experimentell arbeitender Psychologinnen in Jena: 29. März bis 01. April 2009 (p. 36). Lengerich: Pabst Science Publishers.
- A152. Bruns, P. & Röder, B. (in press). Tactile capture of auditory localization: An event-related potential study. *49th Annual Meeting of the Society for Psychophysiological Research. Berlin, German (October 21-24, 2009) Psychophysiology (Supplement).*
- A151. Föcker, J., Best, A., & Röder, B. (2009). Voice-processing in late-onset blind and sighted individuals: Evidence from event-related potentials *Abstract 'Rovereto Workshop on Crossmodal Plasticity', Rovereto, Italy (August 27-29, 2009).*
- A150. Föcker, J., & Röder, B. (2009). Audio-visual integration of emotional processing: Evidence from event-related potential. *Abstract '10th International Multisensory Research Forum', New York, U.S. (June 29-July 2, 2009).*
- A149. Friedrich, C.K., Schild, U. & Röder, B. (2009). Entwicklungsplastizität der Verarbeitung gesprochener Sprache. 35. Arbeitstagung Psychophysiologie und Methodik, Leipzig, 11.-13. Juni 2009 (p. 160).
- A148. Gädeke, J., & Röder, B. (2009). Is the Processing of Affective Prosody Influenced by Spatial Attention? An ERP Study. *49th Annual Meeting of the Society for Psychophysiological Research. Berlin, German (October 21-24, 2009) Psychophysiology (Supplement).*

- A147. Holzschneider, K., Röder, B., Wolbers, T., & Höttig, K. (2009). Effects of aerobic fitness and a cognitive training on spatial learning capacities and functional brain activity. *Abstract '39<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, U.S. (October 17-21, 2009)*.
- A146. Höttig, K., Holzschneider, K., May, A., Kauschke, K., Schmidt, T., Reer, R., Braumann, K.-M., & Röder, B. Structural plasticity after six month of physical training in middle-aged humans *Abstract '39<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, U.S. (October 17-21, 2009)*
- A145. Höttig, K., Holzschneider, K., May, A., Kauschke, K., Schmidt, T., Reer, R., Braumann, K.-M., & Röder, B. (2009). Effekte einer kontrollierten Bewegungsintervention auf die strukturelle Plastizität des Gehirns im mittleren Erwachsenenalter. *Abstract ,82. Kongress der Deutschen Gesellschaft für Neurologie', Nürnberg, Germany (September 23-26,.2009)*.
- A144. Kügow, M., Skotara, N., Salden, U., Hänel-Faulhaber, B. & Röder, B. (2009). Bimodal aspects of the functional organisation of language as revealed by German/German Sign Language bilinguals: An event-related potential. *Abstract '16<sup>th</sup> Meeting of the Society for Cognitive Neuroscience', San Francisco, U.S. (March 21-24, 2009)*.
- A143. Kügow, M., Skotara, N., Salden, U., Hänel-Faulhaber, B. & Röder, B. (2009). Crossmodal aspects of the functional organisation of languages as revealed by German/German Sign Language bilinguals: An event-related potential study. *Abstract 'Rovereto Workshop on Crossmodal Plasticity', Rovereto, Italy (August 27-29, 2009)*.
- A142. Maiworm, M., Röder, B. (2009). Do humans optimally integrate perceptual uncertainty and reward expectation? In A.B. Eder, K. Rothermund, S. R. Schweinberger, M. C. Steffens, & H. Wiese (Eds.), *51. Tagung experimentell arbeitender Psycholog\*innen in Jena: 29. März bis 01. April 2009. Lengerich: Pabst Science Publishers*.
- A141. Röder, B., Wolfram, M., Skotara, N., & Föcker, J. (2009). Affective expression as multisensory binding feature in a ventriloquist situation *Abstract '10<sup>th</sup> International Multisensory Research Forum', New York, U.S. (June 29-July 2, 2009)*.
- A140. Röder, B., Kügow, M., Skotara, N., Salden, U., & Hänel-Faulhaber, B. (2009). Processing German and German Sign Language as a function of age at acquisition. *Abstract 'Rovereto Workshop on Crossmodal Plasticity', Rovereto, Italy (August 27-29, 2009)*.
- A139. Salden, U., Kügow, M., Skotara, N., Hänel-Faulhaber, B. & Röder, B. (2009). Is a delayed first language acquisition comparable to second language acquisition? An EPR study. *Abstract 'Rovereto Workshop on Crossmodal Plasticity', Rovereto, Italy (August 27-29, 2009)*.
- A138. Skotara, N., Kügow, M., Salden, U., Hänel-Faulhaber, B. & Röder, B. (2009). Does a delayed sign language acquisition affect processing of written German differently than an on schedule acquisition? *Abstract 'Rovereto Workshop on Crossmodal Plasticity', Rovereto, Italy (August 27-29, 2009)*.

- A137. Skotara, N., Kügow, M., Salden, U., Hänel-Faulhaber, B. & Röder, B. (2009). Neural correlates of language learning in exceptional circumstances: An event-related potential study. *Abstract '16th Meeting of the Society for Cognitive Neuroscience', San Francisco, U.S. (March 21-24, 2009)*.
- A136. Yue, Z., Zhou, X. & Röder, B. (2009). Gradients of unimodal and crossmodal spatial attention under different processing loads. *Abstract '12th International Multisensory Research Forum', Shandong, China (November 5-8, 2009)*.
- A135. Zhang, D, Hong, B, Röder, B., Gao., S. (2009). Auditory Stimuli Induce a Desynchronization of Steady-state Visual Evoked Potentials. *Abstract '10th International Multisensory Research Forum', New York, U.S. (June 29-July 2, 2009)*.

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- A134. Bischof, G.-N., Höttig, K., & Röder, B. (2008). Aging effects on temporo-spatial perception: Behavioural and event-related potentials (ERPs) evidence. *CNS Annual Meeting, San Francisco, USA (April 12-15, 2008)*.
- A133. Bruns, P. & Röder, B. (2008). Tactile capture of auditory localization is modulated by hand posture. *Abstract '9th International Multisensory Research Forum', Hamburg, Germany (July 16-19, 2008)*.
- A132. Collins, T., Schicke, T. & Röder. B. (2008). Movement intention versus motor preparation in the orientation of visuo-spatial attention: The case of tool use. *Vision Sciences Society Annual Meeting, Naples, Florida, (May 19-14 2008)*.
- A131. Föcker, J., Kusmierenk, A. & Röder, B. (2008). An event-related potential study of person identity priming: Integration of human faces and voices. In P. Khader, K. Jost, H. Lachnit, & F. Rösler (Hrsg.), *Experimentelle Psychologie. Beiträge zur 50. Tagung experimentell arbeitender Psychologen, 3 bis 5. März in Marburg, (S.58)*. Lengerich: Papst Science Publishers.
- A130. Föcker, J., Kusmierenk, A. & Röder, B. (2008). Plasticity of voice-processing: Evidence from event-related potentials in late-onset blind and sighted people. *Abstract '9th International Multisensory Research Forum', Hamburg, Germany (July 16-19, 2008)*.
- A129. Friedrich, C., Schild, U. & Röder, B. (2008). Underspecification in neuronal word form activation. *CNS Annual Meeting, San Francisco, USA (April 12-15, 2008)*. *Supplement of the Journal of Cognitive Neuroscience (2008)*, page 156.
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