

**Hayo Terband**  
**Department of Communication Sciences and Disorders,**  
**College of Liberal Arts & Sciences, University of Iowa**  
Curriculum Vitae as of 11/14/2023

---

Campus Address: 127A SHC, 250 Hawkins Dr., Iowa City IA  
Phone: 319-467-1017  
E-mail: [hayo-terband@uiowa.edu](mailto:hayo-terband@uiowa.edu)

---

## **EDUCATION AND PROFESSIONAL HISTORY**

### **Post Graduate Education**

2006 - 2011      **Ph.D.**, Medical Science, University of Groningen  
Mentors: prof. dr. Ben Maassen (University of Groningen)  
              prof. dr. Pascal van Lieshout (University of Toronto)  
  
Dissertation: Terband, H. (2011). *Speech motor function in relation to phonology: Neurocomputational modeling of disordered development*. Doctoral dissertation, University of Groningen. ISBN 978-90-367-4749-4 (printed version); ISBN 978-90-367-4798-1 (electronic version).

### **Higher Education**

2000              **LL.M.**, International Law, Utrecht University  
Thesis: The liability of states and individuals for international crimes.  
  
2006              **B.A.**, Linguistics, Utrecht University  
Thesis: The automated measurement of the speech reception threshold in noise.  
  
2006              **M.A.**, Language and Speech Technology, Utrecht University  
Thesis: Comparing keyword and whole sentence verification in the measurement of the speech reception threshold in noise.

### **Professional and Academic Positions**

2022 – present      **Assistant professor**, Department of Communication Sciences and Disorders, College of Liberal Arts & Sciences, University of Iowa  
  
2018 – 2021        **Assistant professor**, Department of Language, Literature & Communication, Faculty of Humanities, Utrecht Institute of Linguistics OTS & University College Utrecht, Utrecht University  
  
2017 – 2018        **Visiting assistant professor**, Department of English, College of Arts & Sciences, American University of Sharjah  
  
2015 – 2017        **Assistant professor**, Department of Language, Literature & Communication, Faculty of Humanities & Utrecht Institute of Linguistics OTS, Utrecht University

2012 – 2015	<b>Researcher</b> , Utrecht Institute of Linguistics OTS, Utrecht University
2011 – 2014	<b>Researcher</b> , Department of Medical Psychology/ENT, Radboud University Nijmegen Medical Centre & Centre for Language and Cognition, University of Groningen
2006 – 2011	<b>Junior researcher/PhD-candidate</b> , Department of Medical Psychology/ENT, Radboud University Nijmegen Medical Centre, from March 2010 Research School of Behavioural and Cognitive Neurosciences, University of Groningen

### Licensures and Certifications

2017	Basic University Teaching Qualification, Utrecht University
------	---

### Memberships

2022 - present	American Speech-Hearing Association (ASHA)
2006 - present	Nederlandse Fonetische Vereniging

## RESEARCH

### Awarded grants

2017	<b>Damsté – Terpstra fund</b> (co-applicant; €6.100) "ICS-digital; a multilingual app version of the Intelligibility in Context Scale".
2015	<b>HU University of Applied Sciences Utrecht</b> ; NWO – Doctoral Grant for Teachers (co-applicant; €192.550; PhD voucher Anniek van Doornik) "SPEECH SPraakontwikkelingsstoornissen En de Ernst van de Communicatieve Handicap (Speech Sound Disorders and the severity of the communicative handicap)."
2015	<b>Dynamics of Youth</b> Utrecht University (principal-investigator; €75.000; strategic theme seed money fund). "When language fails: communication skills as a predictor of behavioural problems in children and adolescents". Project nr. SM.DoY.2015.7.T.
2014	<b>UiL – OTS Equipment Fund</b> (principal-investigator; €8.500; internal grant). Six-month rental of a 3D Electromagnetic Articulograph for the "Control parameters of phonological cues"-project.
2012	<b>Dutch Rehabilitation Fund</b> (principal-investigator; €50.000). "Clinical implementation of process-oriented diagnostics and treatment planning of complex sensorimotor disorders in children". Project nr. 2011/0165-060.
2012	<b>NWO – VENI</b> (principal-investigator; €247.000). "Modelling processing deficits in developmental speech sound disorders". Project nr. 275-89-016.
2008	<b>Fulbright</b> (\$6.000). Six-month research visit to the Department of Cognitive and Neural Systems, Boston University.

### Brief summary of projects

2022 – present	<b>Developmental models of childhood speech disorders: the dynamic interaction between cognitive-sensory processing functions and representations.</b> The main thesis of this project is: How a developmental speech
----------------	---

disorder surfaces as a functional impairment is determined by the balance between the different cognitive-sensory processing functions and representations. This balance interacts with the development of cognitive-sensory strategies underlying phonological- and speech-motor learning (attention, monitoring, and feedback processing parameters) and thus determines the developmental trajectory of the speech production system, i.e., how underlying deficits express themselves in symptomatology. The project features a unique approach combining state-of-the-art behavioral experiments with neurocomputational modelling.

- 2021 – present **Speech-Music Therapy for children with Childhood Apraxia of Speech.** Introduction of the recently developed Dutch method Speech-Music Therapy (SMT) as a treatment option for English-speaking children with CAS, including translation and adaptation to English of the treatment protocol and crosslinguistic evaluation of treatment efficacy. Collaboration with Rehabilitation Centre “Revalidatie Friesland”, Beetsterzwaag, The Netherlands and University of Groningen, Groningen, The Netherlands.
- 2021 – present **Sensory processing in children with complex motor-speech disorders.** Evaluation of sensory-processing and oromotor skills in named population. Collaboration with Karolinska Institutet, Stockholm, Sweden.
- 2016 – present **SPEECH: Speech production disorders and the severity of the communicative handicap.** Development of a severity index of childhood speech sound disorders addressing the ICF levels of Body Functions, Activities and Participation. Collaboration with Utrecht University, Utrecht, The Netherlands and HU University of Applied Sciences, Utrecht, The Netherlands.
- 2015 – 2016 **When language fails: Communication skills as a predictor of behavioural problems in children and adolescents.** Development of a tablet game for children featuring different scenarios of communication breakdown (corresponding to different cognitive-linguistic levels) to assess the children’s behavioral response.
- 2014 – present **Control parameters of phonological cues.** 3D kinematic data collected. This project combines measurements of the e.g., perceptual weighting of acoustical cues of phonological contrasts with acoustical and articulatory measurements (EMA & EMG) of the production of those contrasts.
- 2013 – 2019 **Computer Articulation Instrument (CAI).** Development and validation of a computer-application comprising a norm-referenced articulation test. Continued development and expansion of the test battery in light of a process-oriented analysis of speech development. Collaboration with Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands and HAN University of Applied Sciences, Nijmegen, The Netherlands.
- 2012 – 2016 **Modelling processing deficits in developmental speech sound disorders.** Research Associate (3 years 1 fte). This project investigated which neurocognitive processes cause some children to experience problems in learning to speak with a unique approach combining behavioral experiments with neurocomputational modelling.
- 2012 **Speech production in adults with intellectual disabilities: Assessment and intervention of dysfluencies and speech intelligibility.** Research Associate (2 months 0.7 fte). This project specified the speech characteristics underlying poor intelligibility and reduced fluency in adults with ID and formulated and evaluated a therapy program.
- 2011 – 2016 **Development of a process-oriented method for diagnosis and treatment planning of developmental speech disorders.** Research Associate (3 years 0.1

fte). This collaboration with several Dutch Universities of Applied Sciences (HU, Fontys, and HAN) is the first detailed individualistic, process-oriented approach to speech disorders.

- 2011 **Assessment of movement stability in children with a variety of different developmental speech disorders.** Research Associate (10 months 0.1 fte). 3D kinematic data collected in a student project. This work was the first to investigate articulatory variability in the lateral (left-to-right) plane.
- 2009 – 2011 **Aging-related changes in speech rate and control strategies.** 2D kinematic data collected in a student project. This work ruled out the speed/accuracy trade-off strategy in elderly speakers and proposed a strategy aimed at facilitating closed loop control.
- 2006 – 2011 **Tracing back the neurological deficits underlying Childhood Apraxia of Speech.** PhD-project (5 years 0.8 fte). This project was the first to utilize neurocomputational modelling and simulate speech disorders and to combine and quantitatively compare computer simulations and behavioral experiments.
- 2005 – 2006 **Development and validation of a method for the automated measurement of the speech reception threshold in noise.** Internship at TNO Human Factors, Soesterberg, The Netherlands (1 year 0.5 fte). This work constituted the first automated sentence-based hearing test.
- 

## TEACHING

### Courses

- 2023 – present **Evidence Based practice** (CSD6519; MA Speech-Language Pathology), University of Iowa.
- 2023 – present **Developmental Speech Disorders** (CSD4112; BA Speech and hearing science), University of Iowa.
- 2022 – 2023 **Basic Acoustics for Speech & Hearing** (CSD2111; BA Speech and hearing science), University of Iowa.
- 2022 – present **Anatomy & Physiology of speech production** (CSD3112; BA Speech and hearing science), University of Iowa.
- 2020 – 2021 **Experimental psycholinguistics** (BA Linguistics/BSc Artificial Intelligence; with dr. Shalom Zuckerman & dr. Jakub Dotlacil), Utrecht University.
- 2019 – 2021 **Language and speech pathology** (ReMA Linguistics), Utrecht University.
- 2019 – 2021 **Capstone Course: Research, Writing and Reflection** (BA Linguistics; with dr. Frank Drijkoningen), Utrecht University.
- 2019 – 2021 **Speech production and perception** (BA/BSc Liberal arts & sciences), University College Utrecht.
- 2018 – 2021 **Methods & Statistics 1** (BA Linguistics; with dr. Marijn Struiksma), Utrecht University.
- 2018 – 2021 **Phonetics** (BA Linguistics), Utrecht University.
- 2018 – 2021 **Clinical linguistics & phonetics** (BA Linguistics; with dr. Annemarie Kerkhoff/  
2015 – 2017 Brigitta Keij/ dr. Tessel Boerma), Utrecht University.

- 2018 – 2021 **Research methods in linguistics** (BA Language and cultural studies; with dr. Margot van den Berg), Utrecht University.
- 2018 – 2020  
2014 – 2015 **Foundations of sound structure & language acquisition** (ReMA Linguistics; with prof. dr. René Kager), Utrecht University.
- 2018 – 2019 **Research in context** (BA/BSc Liberal arts & sciences), University College Utrecht.
- 2013 – 2017  
2018 – 2019 **Speech production and perception** (MSc Clinical Language, Speech and Hearing Sciences & ReMA Linguistics), Utrecht University.
- 2017 – 2018 **Language Acquisition and Development** (MA TESOL), American University of Sharjah.
- 2017 – 2018 **Advanced Academic Writing** (undergraduate), American University of Sharjah.
- 2017 – 2018 **Public Speaking** (undergraduate), American University of Sharjah.
- 2015 – 2017 **Academic skills** (premaster MSc Clinical Health Sciences), University Medical Centre Utrecht.
- 2015 – 2017 **Writing assignment Fundamentals of Neuroscience and Cognition** (MSc Neuroscience and Cognition), Utrecht University.
- 2013 – 2017 **Workshop "How to write a research grant proposal?"** (yearly workshop ReMA Linguistics), Utrecht University.
- 2013 – 2017 **Workshop "How to create and present a scientific poster?"** (yearly workshop ReMA Linguistics), Utrecht University.
- 2011 – 2014 **Practical Phonetics** (BA Linguistics), Utrecht University.

### Thesis supervision

- 2023 – present Supervisor Bhavana Bhat, **PhD Speech-Language Pathology**, University of Iowa.
- 2021 – present Co-supervisor Mirjam van Tellingen, **PhD Neurolinguistics**, University of Groningen: "Speech-Music Therapy for children with Childhood Apraxia of Speech".
- 2021 – present Co-supervisor Helena Björelus, **PhD Medical Sciences**, Karolinska Institutet: "Sensory processing in children with complex motor-speech disorders".
- 2016 – present Co-supervisor Anniek van Doornik-van der Zee, **PhD Clinical Language, Speech and Hearing Sciences**, Utrecht University: "SPEECH: SpraakProductiestoornissen en de Ernst van de Communicatieve Handicap".
- 2014 – 2022 Co-supervisor Sanne Diepeveen, **PhD Medical Sciences**, Radboud University Nijmegen Medical Centre: "Towards process-oriented diagnostics in children with Speech Sound Disorders".
- 2011 – 2013 Co-supervisor Marjolein Coppens-Hofman, **PhD Medical Sciences**, Radboud University Nijmegen Medical Centre: "Communication in adults with intellectual disabilities".
- 2007 – 2021 Yearly 1-3 BA, MA, MSc-level theses in the areas of Linguistics and Speech- and Language Pathology at Radboud University Nijmegen, University of Groningen, and Utrecht University.

## SERVICE

### Departmental service

- 2022 – present **Member of UG Program Committee**, Department of Communication Sciences and Disorders, University of Iowa.
- 2022 – 2023 **Member of DEO Search committee**, Department of Communication Sciences and Disorders, University of Iowa.
- 2018 – 2021  
2015 – 2017 **Member of Program committee** MSc Clinical Health Sciences (Track Clinical Language, Speech and Hearing Sciences), University Medical Centre Utrecht.
- 2018 – 2020 **Coordinator Minor Clinical Language, Speech and Hearing Sciences**, BA Linguistics, Utrecht University.
- 2018 – 2020  
2016 – 2017 **Coordinator clinical internships** BA Linguistics (Minor Clinical Language, Speech and Hearing Sciences), Utrecht University.
- 2016 – 2017 **Member of Curriculum committee** MSc Clinical Health Sciences, University Medical Centre Utrecht.
- 2014 – 2017 **Coordinator Matching & Information events** BA Linguistics, Utrecht University.

### Professional service

- 2020 – present **Member of ANCDs pediatric motor speech disorders committee.**
- 2017 – 2020 **Member of ANCDs Writing Committee on Childhood Apraxia of Speech.**
- 2006 – present **Member & co-chair (2017; 2022) of Organization committee 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, & 8<sup>th</sup> International Conference on Speech Motor Control** held 2006, 2011, 2017, and 2022 ([www.slp-nijmegen.nl/smc2021](http://www.slp-nijmegen.nl/smc2021)).
- 2012 – 2017 **Member of Organization committee EMLAR X-XIII**, annual workshop Experimental Methods in Language Acquisition Research held in April in Utrecht, the Netherlands (<http://www.let.uu.nl/emlar>).

### Editorial service

- 2016 – present **Associate editor** Folia Phoniatica et Logopaedica, section Motor Speech Disorders.
- 2022 – 2023 **Guest editor** Journal of Speech, Language, and Hearing Research, special issue 8<sup>th</sup> International Conference on Speech Motor Control.
- 2018 – 2019 **Guest editor** Journal of Speech, Language, and Hearing Research, special issue 7<sup>th</sup> International Conference on Speech Motor Control.
- 2012 – present **Ad hoc reviewer** for o.a., Cortex, Journal of Speech, Language, and Hearing Research, Journal of the Acoustical Society of America, Journal of Communication Disorders, Laboratory Phonology, International Journal of Speech-Language Pathology, American Journal of Speech-Language Pathology, Folia Phoniatica et Logopaedica, International Journal of Developmental Disabilities, Disability and Rehabilitation, International Congress of Phonetic Sciences (ICPhS).
- 2011 – present **Journal manager & Editor** (2014 – present) Stem-, Spraak- en Taalpathologie (Dutch peer reviewed journal "Voice-, Speech-, and Language Pathology"; [www.sstp.nl](http://www.sstp.nl)).

## PUBLICATIONS

### Peer-reviewed journal publications

- van Tellingena, M., Hurkmans, J., **Terband, H.**, van de Zande, A.-M., Maassen, B. & Jonkers, R. (2023). Speech and music therapy in the treatment of CAS: An introduction and a case study. *Journal of Speech, Language and Hearing Research*.
- Terband, H.** & Van Brenk, F. (2023). Modeling responses to auditory feedback perturbations in adults, children, and children with complex speech sound disorders: evidence for impaired auditory self-monitoring? *Journal of Speech, Language and Hearing Research*, 1-25.
- Diepeveen, S., **Terband, H.**, van Haafte, L., van de Zande, A.M., Megens-Huigh, Ch., De Swart, B., & Maassen, B. (2022). Process-oriented profiling of speech sound disorders. *Children*, 9(10), 1502. DOI: 10.3390/children9101502
- van Tellingena, M., Hurkmans, J., **Terband, H.**, Jonkers, R., & Maassen, B. (2022). Music and musical elements in the treatment of childhood speech sound disorders: A systematic review of the literature. *International Journal of Speech-Language Pathology*. DOI: 10.1080/17549507.2022.2097310
- van Haafte, L., Diepeveen, S., **Terband, H.**, De Swart, B., Van den Engel-Hoek, L., & Maassen, B. (2021). Maximum Repetition Rate in a large cross-sectional sample of typically developing Dutch-speaking children. *International Journal of Speech-Language Pathology*, 23(5), 508-518. DOI: 10.1080/17549507.2020.1865458
- Murray, E., Iuzzini, J., Maas, E., **Terband, H.**, & Ballard, K. (2020). Diagnosis of Childhood Apraxia of Speech compared to other Speech Sound Disorders: A Systematic Review. *American Journal of Speech-Language Pathology*, 30(1), 279-300. DOI: 10.1044/2020\_AJSLP-20-00063
- Diepeveen, S., van Haafte, L., **Terband, H.**, De Swart, B., & Maassen, B. (2020). Clinical Reasoning for Speech Sound Disorders: Diagnosis and Intervention in Speech-Language Pathologists' Daily Practice. *American Journal of Speech-Language Pathology*, 29(3), 1529-1549. DOI: 10.1044/2020\_AJSLP-19-00040
- van Brenk, F. & **Terband, H.** (2020). Individual differences in compensatory and adaptive responses to real-time formant shifts in adults and children. *Journal of the Acoustical Society of America*, 147, 2261. DOI: 10.1121/10.0001018
- Terband, H.**, Rodd, J., & Maas, E. (2019). Testing hypotheses about the underlying deficit of apraxia of speech (AOS) through computational neural modelling with the DIVA model. *International Journal of Speech-Language Pathology*, 22(4), 475-486. DOI: 10.1080/17549507.2019.1669711
- Maassen, B., **Terband, H.**, Maas, E., & Namasivayam, A. (2019). Preface to the Special Issue: Select Papers From the 7th International Conference on Speech Motor Control. *Journal of Speech, Language and Hearing Research*, 62(8S), 2923-2925. DOI: 10.1044/2019\_JSLHR-S-CSMC7-19-0247
- Terband, H.**, Namasivayam, A., van Brenk, F., Diepeveen, S., Mailend, M.-L., Maas, E., Van Lieshout, P. & Maassen, B. (2019). Assessment of Childhood Apraxia of Speech: a review/tutorial of objective measurement techniques. *Journal of Speech, Language and Hearing Research*, 62(8S), 2999-3032. DOI: 10.1044/2019\_JSLHR-S-CSMC7-19-0214
- Diepeveen, S., van Haafte, L., **Terband, H.**, De Swart, B., & Maassen, B. (2019). A standardized protocol for Maximum Repetition Rate assessment in children. *Folia Phoniatrica et Logopaedica*, 71, 238-250. DOI: 10.1159/000500305
- Terband, H.**, Maassen, B. & Maas, E. (2019). A psycholinguistic framework for diagnosis and treatment planning of developmental speech disorders. *Folia Phoniatrica et Logopaedica*, 71, 216-227. DOI: 10.1159/000499426



- van Haaften, L., Diepeveen, S., **Terband, H.**, Vermeij, B., Van den Engel-Hoek, L., De Swart, B., & Maassen, B. (2019). Clinical validation of the Computer Articulation Instrument (CAI). *American Journal of Speech-Language Pathology*, 28(25):844-856. DOI: 10.1044/2018\_AJSLP-MS18-18-0112
- Terband, H.**, Spruit, M., & Maassen, B. (2018). Speech impairment in children with Fetal Alcohol Spectrum Disorders. *American Journal of Speech-Language Pathology*, 27, 1405-1425.
- van Doornik, J.C., Gerrits, E., McLeod, S., & **Terband, H.** (2018). Impact of communication partner familiarity and speech accuracy on parents' ratings of their child for the Intelligibility in Context Scale: Dutch. *International Journal of Speech-Language Pathology*, 20(3), 350-360.
- Terband, H.**, Coppens-Hofman, M.C., Reffeltrath, M., & Maassen, B. (2018). Effectiveness of speech therapy in adults with intellectual disabilities. *Journal of Applied Research in Intellectual Disabilities*, 31(2), 236-248.
- Coppens-Hofman, M.C., **Terband, H.**, Snik, A.F.M., & Maassen, B. (2016). Speech characteristics and intelligibility in adults with mild and moderate intellectual disabilities. *Folia Phoniatica et Logopaedica*, 68, 175-182.
- Terband, H.**, Maassen, B., & Maas, E. (2016). Klinisch Forum: Een procesgerichte aanpak van differentiaaldiagnose en therapieplanning bij spraakontwikkelingsstoornissen. *Stem- Spraak- Taalpathologie*, 21, 1-31. (In Dutch)
- Nijssen, M., van Brenk, F. & **Terband, H.** (2015). Procesanalyse van spraakproductie bij kinderen met spraakontwikkelingsstoornissen. *Stem- Spraak- Taalpathologie*, 20, 216-237. (In Dutch)
- Nijland, L., **Terband, H.**, & Maassen, B. (2015). Cognitive functions in Childhood Apraxia of Speech. *Journal of Speech, Language and Hearing Research*, 58, 550-565.
- Terband, H.** & van Brenk, F. (2015). Compensatory and adaptive responses to real-time formant shifts in adults and children. *Proceedings of the 18<sup>th</sup> International Congress of Phonetic Sciences (ICPhS 2015)*, Glasgow, August 10-14.
- Terband, H.**, Rodd, J., & Maas, E. (2015). Simulations of feedforward and feedback control in apraxia of speech (AOS): Effects of noise masking on vowel production in the DIVA model. *Proceedings of the 18<sup>th</sup> International Congress of Phonetic Sciences (ICPhS 2015)*, Glasgow, August 10-14.
- Terband, H.**, van Brenk, F., & van Doornik-van der Zee, J.C. (2014). Auditory feedback perturbation in children with developmental speech disorders. *Journal of Communication Disorders*, 51, 64-77.
- Terband, H.**, Maassen, B., Guenther, F. H., & Brumberg, J. (2014). Auditory-Motor Interactions in Pediatric Motor Speech Disorders: Neurocomputational Modeling of Disordered Development. *Journal of Communication Disorders*, 47, 17-33.
- van Brenk, F., **Terband, H.**, van Lieshout, P., Lowit, A., & Maassen, B. (2014). Rate-related kinematic changes in younger and older adults. *Folia Phoniatica et Logopaedica*, 65, 69-77.
- Coppens-Hofman, M.C., **Terband, H.**, Maassen, B., van Schrojenstein Lantman-De Valk H.M.J., van Zaalen-op 't Hof, Y., & Snik, A.F.M. (2013). Dysfluencies in the speech of adults with intellectual disabilities and reported speech difficulties. *Journal of Communication Disorders*, 46, 484-494.
- Terband, H.**, van Zaalen, Y., & Maassen, B. (2012). Lateral jaw stability in children with developmental speech disorders, *Journal of Medical Speech-Language Pathology*, 20(4), 112-118.
- Terband, H.** & Maassen, B. (2012). Spraakontwikkelingsstoornissen: Van symptoom- naar procesdiagnostiek, *Logopedie en Phoniatrie*, 7-8, 229-234. (In Dutch; invited paper)
- Terband, H.**, Maassen, B., Van Lieshout, P., & Nijland, L. (2011). Stability and composition of functional synergies for speech movements in children with developmental speech disorders. *Journal of Communication Disorders*, 44(1), 59-74.



- Terband, H.**, & Maassen, B. (2010). Speech motor development in Childhood Apraxia of Speech (CAS): generating testable hypotheses by neurocomputational modeling. *Folia Phoniatrica et Logopaedica*, 62, 134-142.
- Maassen, B., **Terband, H.**, & Nijland, L. (2009). Modellen van spraakontwikkelingsdyspraxie. *Stem- Spraak- Taalpathologie*, 16(03), 137-154. (In Dutch)
- Terband, H.**, Maassen, B., Guenther, F. H., & Brumberg, J. (2009). Computational neural modeling of Childhood Apraxia of Speech (CAS). *Journal of Speech, Language and Hearing Research*, 52(6), 1595-1609.
- van Brenk, F., **Terband, H.**, Maassen, B., van Lieshout, P., & Lowit, A. (2009). An analysis of speech rate strategies in aging. *Proceedings of Interspeech 2009*, 792-795.
- Terband, H.**, van Brenk, F., van Lieshout, P., Nijand, L. & Maassen, B. (2009). Stability and composition of functional synergies for speech movements in children and adults. *Proceedings of Interspeech 2009*, 788-791.
- Terband, H.** & Drullman, R. (2008). Study of an automated procedure for a Dutch sentence test for the measurement of the speech reception threshold in noise. *Journal of the Acoustical Society of America*, 124(5), 3225-3234.

### Clinical instruments and applications

- Maassen, B., van Haaften, L., Diepeveen, S., **Terband, H.**, van den Engel-Hoek, L., Veenker, Th., & De Swart, B. (2019). *Het Computer Articulatie Instrument (CAI)*. Amsterdam: Boom Testuitgevers.
- McLeod, S., Harrison, L. J., & McCormack, J. (2013). *Schaal voor Verstaanbaarheid in de Context [Intelligibility in Context Scale: Dutch]*. (J.C. van Doornik-van der Zee & **H. Terband**, Trans.). Bathurst, NSW, Australia: Charles Sturt University.
- Terband, H.** & Drullman, R. (2008). *Een automatische methode voor het meten van de spraakverstaanbaarheid*. TNO Human Factors.

### Edited books & collections

- Maassen, B., **Terband, H.**, & Maas, E. (Eds.) (2022). 8th International Conference on Speech Motor Control Groningen: Abstracts. *Stem- Spraak- Taalpathologie*, 27 (Suppl.).
- Maassen, B., **Terband, H.**, Maas, E., & Namasivayam, A. (2019). Special Issue: Select Papers From the 7th International Conference on Speech Motor Control. *Journal of Speech, Language and Hearing Research*, 62(8S).
- van Brenk, F. & **Terband, H.** (Eds.) (2018). Research tutorials door Nederlandstalige onderzoekers in het buitenland II. *Stem- Spraak- Taalpathologie*, 23 (Special issue). (In Dutch)
- Maassen, B. & **Terband, H.** (Eds.) (2017). 7th International Conference on Speech Motor Control Groningen: Abstracts. *Stem- Spraak- Taalpathologie*, 21 (Suppl.).
- Van Lieshout, P., Maassen, B., & **Terband, H.** (Eds.) (2016). *Speech Motor Control in normal and disordered speech: Future developments in theory and methodology*. Rockville, MD: ASHA.
- Terband, H.** (Ed.) (2015). Research tutorials door Nederlandstalige onderzoekers in het buitenland. *Stem- Spraak- Taalpathologie*, 20 (Special issue). (In Dutch)
- Maassen, B., Van Lieshout, P., & **Terband, H.** (Eds.) (2011). 6th International Conference on Speech Motor Control Groningen: Abstracts. *Stem- Spraak- Taalpathologie*, 17 (Suppl.).
- Maassen, B., Van Lieshout, P., & **Terband, H.** (Eds.) (2006). Abstracts 5th International Conference on Speech Motor Control Nijmegen. *Stem- Spraak- Taalpathologie*, 14 (Suppl.).