

Tim Schoof PhD

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Education

PhD Speech, Hearing and Phonetic Sciences

University College London, UK

Thesis: The effects of ageing on the perception of speech in noise

2014

MRes Speech, Language and Cognition

University College London, UK

Dissertation: Brainstem encoding of voiced stop consonants in quiet and noise

2011

MA Linguistics

Utrecht University, The Netherlands

Dissertation: The perception of speech in noise with bilateral and bimodal hearing devices

2010

BA English Language and Literature

University of Groningen, The Netherlands

2007

Academic and Research Experience

Research Associate

University College London, UK

Consequences of cochlear neuropathy in people with normal hearing thresholds

Jan 2017 - present

Postdoctoral Fellow

Northwestern University, USA

Individual differences in hearing aid outcomes

May 2015 - Dec 2016

Postdoctoral Fellow

University College London, UK

Developing a clinical tool for the rapid assessment of subcortical processing of complex sounds

Oct 2014 - Apr 2015

Publications

Peer-reviewed

1. Souza, P., Arehart, K., Schoof, T., Anderson, M., Strori, D., and Balmert, L. (under review). Understanding variability in individual response to hearing aid signal processing: Results from a clinical trial.
2. Schoof, T., Calcus, A., Rosen, S., Shinn-Cunningham, B., and Souza, P. (under review). Switching streams across ears to evaluate informational masking of speech-on-speech.
3. Mai, G., Schoof, T., and Howell, P. (under review). Modulation of phase-locked neural responses to speech during different arousal states is age-dependent.
4. Schoof, T. and Souza, P. (2018). Multitasking with typical use of hearing aid noise reduction in older listeners. *PsyArXiv*, <https://doi.org/10.31234/osf.io/bhq2j>
5. Anderson, M., Rallapalli, V., Schoof, T., Souza, P., and Arehart, K. (2018). The use of self-report measures to examine changes in perception in response to fittings using different signal processing parameters. *International Journal of Audiology*, 1-7
6. Schoof, T. and Rosen, S. (2016). The role of age-related declines in subcortical auditory processing in speech perception in noise. *Journal of the Association for Research in Otolaryngology*, 17(5):441-460
7. Schoof, T. and Rosen, S. (2015). High sentence predictability increases the fluctuating masker benefit. *Journal of the Acoustical Society of America*, 138(3):EL181-EL186
8. Schoof, T. and Rosen, S. (2014). The role of auditory and cognitive factors in understanding speech in noise by normal-hearing older listeners. *Frontiers in Aging Neuroscience*, 6:307

- Schoof, T., Green, T., Faulkner, A., and Rosen, S. (2013). Advantages from bilateral hearing in speech perception in noise with simulated cochlear implants and residual acoustic hearing. *Journal of the Acoustical Society of America*, 133(2):1017–1030

Editor-reviewed

- Souza, P., Schoof, T., and Shen, J. (2017). Can individual cognitive abilities direct audiology treatment? *Audiology Today*, 29(2):25–34

Selected presentations

Talks (3 of 10)

- Schoof, T., Souza, P., Anderson, M., and Arehart, K. (2017). Variability in susceptibility to hearing aid distortion (invited talk). Science Space Seminar, National Institute for Health Research Nottingham Hearing Biomedical Research Unit, Nottingham, UK
- Schoof, T. and Rosen, S. (2015). The role of auditory and cognitive processing in the perception of speech in noise by normal-hearing older adults (invited talk). Auditory Research Laboratory, Newcastle University, Newcastle, UK
- Schoof, T. and Rosen, S. (2013). The relative contribution of declines in auditory and cognitive processing to speech perception difficulties in noise in older adults (talk). British Society of Audiology Annual Conference, Keele, UK

Posters (6 of 11)

- Boothalingam, S. and Schoof, T. (2018). The influence of noise exposure on auditory efferent function measured using modulated signals (poster). ARO MidWinter Meeting, San Diego, CA, USA
- Schoof, T. (2017). Enhancing transparency and reproducibility of hearing science (poster). American Auditory Society, Scottsdale, AZ, USA
- Schoof, T., Calcus, A., Rosen, S., Shinn-Cunningham, B., and Souza, P. (2016). Isolating the informational component of speech-on-speech masking (poster). Acoustical Society of America, Honolulu, HI, USA
- Schoof, T. and Rosen, S. (2016). Neural origins of the frequency following response to resolved and unresolved modulated tones (poster). Frequency Following Response Workshop, Boston, MA, USA
- Schoof, T., Rosen, S., and de Cheveigné, A. (2014). Rapid ffr: A new technique to rapidly collect the frequency following response (poster). Frequency Following Response Workshop, London, UK
- Schoof, T. and Rosen, S. (2013). The role of subcortical encoding in accounting for speech perception in steady-state and amplitude-modulated noise (poster). ARO MidWinter Meeting, Baltimore, MD, USA

Grants

Research

- Schoof, T. and Boothalingam, S. (2017). The role of the auditory efferent system in hidden hearing loss in humans. Flexi Grant, Action on Hearing Loss. £4806
- Schoof, T. and Rosen, S. (2014). Rapid FFR: developing a clinical tool for the rapid assessment of subcortical processing of complex sounds. Pauline Ashley Small Project Grant, Action on Hearing Loss. £28,916

Professional service

- Schoof, T. and Boothalingam, S. (2016). Talk global: Communication across borders. Professional Development Grant, Northwestern University, \$1000
- Boothalingam, S. and Schoof, T. (2016). Talk global: Communication across borders. Catalyst Grant, Northwestern University, \$1000
- Schoof, T., Calcus, A., and Shinn-Cunningham, B. (2016). Workshop on the frequency following response. Intelligent Hearing Systems, \$2000
- Calcus, A., Schoof, T., and Shinn-Cunningham, B. (2016). Frequency following response workshop. COMIC Award, Compnet, Boston University, \$7400
- Calcus, A., Colin, C., Schoof, T., and Rosen, S. (2013). Workshop on the frequency following response. Organisation d'une reunion scientifique, Le Fonds de la Recherche Scientifique (FNRS), €3000
- Schoof, T., Calcus, A., and Rosen, S. (2013). Workshop on the frequency following response. Support for short meetings and conferences, Guarantors of Brain, £1500

7. Calcus, A., Schoof, T., and Rosen, S. (2013). Workshop on the frequency following response. Brain Products & Brain Vision UK, £3000

Other

1. Schoof, T. (2016). Isolating the informational component of speech-on-speech masking. Knowles Postdoctoral Fellow Travel Award, Northwestern University, \$1000
2. Schoof, T. (2016). Isolating the informational component of speech-on-speech masking. Postdoctoral Professional Development Travel Award, Northwestern University, \$500
3. Schoof, T. and Souza, P. (2015). Asha research mentoring-pair travel award. ASHA Convention, \$1000
4. Schoof, T. (2014). The role of age-related auditory and cognitive declines in understanding speech in noise. ARO Travel Award: Graduate student/postdoctoral fellow, ARO, \$500
5. Schoof, T. (2013). The relative contribution of declines in auditory and cognitive processing to speech perception difficulties in noise in older adults. Student Scholarship, Aging and Speech Communication Conference, \$1000
6. Schoof, T. (2013). The relative contribution of declines in auditory and cognitive processing to speech perception difficulties in noise in older adults. University College London Graduate School Student Conference Fund, £80
7. Schoof, T. (2013). The role of subcortical encoding in accounting for speech perception in steady-state and amplitude-modulated noise. ARO Travel Award: Graduate student/postdoctoral fellow, ARO, \$500
8. Schoof, T. (2013). The role of subcortical encoding in accounting for speech perception in steady-state and amplitude-modulated noise. Defeating deafness ARO Travel Fellowship, Deafness Research, UK, £500
9. Schoof, T. and Rosen, S. (2011). Developing expertise in the measuring and interpretation of auditory brainstem responses to speech. visit to the auditory neuroscience laboratory at northwestern university. Flexi Grant, Action on Hearing Loss, £1608

Teaching Experience

Module coordinator

Current issues in production, perception and neural processing of speech (MSc)

University College London, UK

2017

Guest lecturer

Introduction to event-related potential technique (MSc)

- Basic principles of EEG recording
- Measurement and statistics

University College London, UK

2015, 2017

APD Masterclass, auditory processing disorders: current science and clinical practice (CPD)

- Speech ABRs in an ageing population

2014

Student mentorship

Rachel Appleton (AuD), The value of increasing the number of hearing aid channels for noise reduction: The effects on listening effort. Co-supervised with Pamela Souza.

Northwestern University, USA

2017

Dominic Pittman (MSc), Using the frequency following response to investigate the basilar membrane's response to sound. Co-supervised with Stuart Rosen.

University College London, UK

2014

Hollyana Marler (BSc), Do the effects of auditory attention extend down to the brainstem? Co-supervised with Stuart Rosen.

2014

Yang Wang (MRes) The effects of attention on the frequency following response. Co-supervised with Stuart Rosen.

2013

Jingwei Zhang (MSc), A frequency following response (FFR) investigation of auditory efferent inhibition in the brain stem: A case of fundamental frequency rise and fall in mandarin tones. Co-supervised with Peter Howell, Jyrki Tuomainen, and Eryk Walczak.

2013

Professional Service

Editorial Board member

Journal of Speech, Language, and Hearing Research - Hearing section

2018

Conference organisation

London, UK & Boston, MA, USA

Frequency Following Response Workshop

2014, 2016

- Organized a new conference within the field of auditory neuroscience
- Invited speakers, set the conference program, secured venue and catering, handled reimbursements
- Secured over £13,000 in funding through grant applications and corporate sponsorship

University service

UCL Neuroscience Careers Network, Committee member

2018

- Co-organized a workshop on Open Science practices
- Took part in a panel discussion about working at UCL for new research staff

Northwestern University Postdoctoral Forum, International committee member

2016

- Worked to enhance the experience of postdocs coming from outside the US to Northwestern University
- Organized social and professional development events, including a workshop on effective communication in an international setting
- Secured \$2000 in funding through grant applications