CURRICULUM VITAE
Sander van Bree

Centre for Cognitive Neuroimaging (CCNi)
Institute of Neuroscience and Psychology
University of Glasgow
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Professional

2019 — **Assistant Lab Manager & MEG Operator**
MRC Cognition and Brain Sciences Unit at University of Cambridge
Oversight over MEG laboratory, equipment checks, user management, and resource monitoring
Data acquisition, sensor tuning, instructing and supporting researchers, testing participants

2018 – 2019 — **Research Assistant**
MRC Cognition and Brain Sciences Unit at University of Cambridge
Supervised by Benedikt Zoefel and Matt Davis
Study design, coding experimental paradigms, data acquisition (tACS, MEG, EEG, fMRI), analysis, writing

2018 — **Student Research Assistant**
Maastricht University
Study design, coding experimental paradigms, data acquisition (EEG, vibrotactile stimulation), analysis, writing

2014 – 2016 — **Science column writer**
Brainmatters.nl
Communicated results from high-impact neuroscience studies for a lay target audience in Dutch

Education

2019 – present — **PhD Student**
University of Glasgow (Centre for Cognitive Neuroimaging)
University of Birmingham (Centre for Human Brain Health)
Supervised by Maria Wimber and Simon Hanslmayr
Transfer from Birmingham to Glasgow following lab relocation

2016 – 2018 — **Research Master in Cognitive Neuroscience**
Maastricht University
Master thesis supervised by Lars Riecke *grade: 9.5/10*
Thesis work resulted in Brain Stimulation publication listed below

2015 - 2016 — **MaRBLe Excellence Research Program**
Maastricht University
Excellence opportunity to conduct empirical research during undergraduate studies

2014 – 2015 **Bachelor Honours Program**
Maastricht University
Excellence program for top 20 students in academic cohort

2013 – 2016 **Bachelor in Psychology and Neuroscience** *cum laude*
Maastricht University
Bachelor thesis supervised by Tom de Graaf
Thesis work included in European Journal of Neuroscience publication listed below

2011 – 2013 **Applied Psychology**
Fontys Eindhoven

First author publications

van Bree, S. (2023). A Critical Perspective on Neural Mechanisms in Cognitive Neuroscience: Towards Unification. *Perspectives on Psychological Science.*

van Bree, S., Melcón, M., Kolibius, L. D., Kerrén, C., Wimber, M., & Hanslmayr, S. (2022). The brain time toolbox, a software library to retune electrophysiology data to brain dynamics. *Nature Human Behaviour*, 1–10.

van Bree, S., Alamia, A., & Zoefel, B. (2022). Oscillation or not—Why we can and need to know (commentary on Doelling and Assaneo, 2021). *European Journal of Neuroscience*, *55* (1), 201–204.

van Bree, S., Sohoglu, E., Davis, M. H., & Zoefel, B. (2021). Sustained neural rhythms reveal endogenous oscillations supporting speech perception. *PLOS Biology, 19* (2), e3001142.

van Bree, S., Formisano, E., van Barneveld, D., George, E., & Riecke, L. (2019). No evidence for modulation of outer hair-cell function by 4-Hz transcranial alternating current stimulation. *Brain Stimulation, 12* (3).

Contributing author publications

Kerrén, C., van Bree, S., Griffiths, B. J., & Wimber, M. (2022). Phase separation of competing memories along the human hippocampal theta rhythm. *eLife.*

Melcón, M., van Bree, S., Sánchez-Carro, Y., Barreiro-Fernández, L., Kolibius, L. D., Alzueta, E., Wimber, M., Capilla, A., & Hanslmayr, S. (2021). The spotlight of attention turns from rhythmic exploration-exploitation to a stable exploitation state. *BioRxiv*.

de Graaf, T. A., Thomson, A., Janssens, S. E. W., van Bree, S., ten Oever, S., & Sack, A. T. (2020). Does alpha phase modulate visual target detection? Three experiments with tACS-phase-based stimulus presentation. *European Journal of Neuroscience, 51* (11).

Riecke, L., Snipes, S., van Bree, S., Kaas, A., & Hausfeld, L. (2019). Audio-tactile enhancement of cortical speech-envelope tracking. *NeuroImage*, 202.

Reviewing

Journal of Neuroscience (2×) • Psychophysiology (2×) • eLife

Memberships

Organization for Human Brain Mapping (OHBM) • Society for Neuroscience (SfN) • The International Society for the Philosophy of the Sciences of the Mind (ISPS)

Software

Brain Time Toolbox: Warp electrophysiological data from clock time to brain time and analyze the dynamic neural patterns of cognitive processes – a MATLAB toolbox (github)

Community contributions & Outreach

2021 – present
Centre for Cognitive Neuroimaging Journal Club
University of Glasgow
Host

2021 – present
Blog (read)

- *Introducing the Brain Time Toolbox*
- *Why neuroscience can't do without philosophy*
- *The scope and limits of oscillations in language comprehension*

2018 – 2019
MRC Cognition and Brain Sciences Unit Environmental Committee
University of Cambridge
Committee member

2020
SolidariTEA 2 Podcast
SolidariTEA 2 - Green Advocacy With Sander van Bree. Advocating for workplace activism in an academic setting (listen)

2019
MRC Cognition and Brain Sciences Unit Lecture
Actions to mitigate climate change: what's effective? Advocating for workplace activism in an academic setting

2018
Straight From A Scientist Podcast
Episode 27: Free and Open Science: Reworking peer review and null results with Sander van Bree (listen)

Teaching

University of Glasgow Master students
Training three masters students to acquire, analyse, and report on EEG data for master thesis

Poster Presentations

van Bree, S., Mackenzie, A., Wimber, M. (2023). Evaluating visual pings as a method to enhance the readout of long-term memory contents. *Generative Episodic Memory (GEM)*

van Bree, S., Melcón, M., Kolibius, L. D., Kerrén, C., Wimber, M., & Hanslmayr, S. (2023). Clock time: a foreign measure to brain dynamics – introducing the brain time toolbox. *Learning & Memory (LEARNMEM)*

van Bree, S., Melcón, M., Kolibius, L. D., Kerrén, C., Wimber, M., & Hanslmayr, S. (2022). Clock time: a foreign measure to brain dynamics – introducing the brain time toolbox. *Organization for Human Brain Mapping (OHBM)*

van Bree, S., Melcón, M., Kolibius, L. D., Kerrén, C., Wimber, M., & Hanslmayr, S. (2022). Clock time: a foreign measure to brain dynamics – introducing the brain time toolbox. *International Conference of Cognitive Neuroscience (ICON)*

van Bree, S., Melcón, M., Kolibius, L. D., Kerrén, C., Wimber, M., & Hanslmayr, S. (2021). Clock time: a foreign measure to brain dynamics. *Society for Neuroscience (SfN)*

van Bree, S., Melcón, M., Wimber, M., & Hanslmayr, S. (2020). Brain Time Toolbox: Warping electrophysiological data to detect recurrence of active cognitive processes. S*fN: Global Connectome*

van Bree, S., Sohoglu, E., Davis, M. H., & Zoefel, B. (2019). Sustained oscillations in MEG and tACS demonstrate true neural entrainment in speech processing. *Society for Neurobiology of Language (SNL)*

van Bree, S., Sohoglu, E., Davis, M. H., & Zoefel, B. (2019). Does rhythmic stimulation produce sustained neural entrainment? *British Association for Cognitive Neuroscience (BACN)*

van Bree, S., Sohoglu, E., Davis, M. H., & Zoefel, B. (2019). Does rhythmic stimulation produce sustained neural entrainment? *MEG UK*

van Bree, S., Thomson, A., Janssens, S. E. W., ten Oever, S., Sack, A. T. & de Graaf, T. A. (2018). No evidence for a causal effect of tACS individual alpha phase on visual awareness. *Dutch Neuroscience Meeting (DNM)*

van Bree, S., de Graaf, T. A. (2016). What is the causal effect of alpha phase on visual awareness? *MaRBLe Excellence Meeting*

Academic theses

van Bree, S. (2018). Transcranial alternating current stimulation does not modulate distortion product otoacoustic emissions. *Master thesis*

van Bree, S. (2016). The causal role of alpha phase on visual awareness. *Bachelor thesis*

van Bree, S. (2015). The zombie and modal argument against physicalism: Claims of conceivability, imaginability and possibility. *Honours programme thesis*