Hugo Weissbart

POSTDOCTORAL RESEARCHER

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Professional Experience ___

2020-2024 Postdotcoral Researcher, Donders Institute, Radboud University, the Netherlands

2020 Research Assistant, Imperial College London, UK

2014-2020 Graduate Teaching Assistant, Dept. Bioengineering, Imperial College London

Education

Imperial College LondonLondon, United KingdomPHD Neurotechnology2016 - 2020

• Thesis title: Decoding speech comprehension from continuous EEG recordings

• Supervisor: Dr. Tobias Reichenbach

Imperial College London, Unitecd Kingdom

London, Unitecd Kingdom

2015 - 2016

MRES NEUROTECHNOLOGY

• Advisor: Dr. Tobias Reichenbach

Imperial College LondonLondon, UNitecd Kingdom

MSc Physics 2013 - 2014

• Thesis title: Effects of psilocybin on the human brain functional network

• Advisor: Dr. Tim Evans

ISAE Supaero

Toulouse, France

ENGINEERING DEGREE

2010 - 2014

• Majors in applied mathematics

Publications ___

- **H Weissbart**, AE Martin. 2024. Structure and statistics jointly shape cross-frequency neural dynamics during speech comprehension. biorXiv, **in press**.
- I Zioga, YJ Zhou, **H Weissbart**, AE Martin, S Haegens, Alpha And Beta Oscillations Differentially Support Word Production In A Rule-Switching Task, 2024, eNeuro
- S Slaats, **H Weissbart**, J Schoffelen, AS Meyer, AE Martin, Delta-Band Neural Responses To Individual Words Are Modulated By Sentence Processing, 2023, Journal of Neuroscience
- F Tezcan, **H Weissbart**, AE Martin, A Tradeoff Between Acoustic And Linguistic Feature Encoding In Spoken Language Comprehension, 2023, Elife
- I Zioga, **H Weissbart**, AG Lewis, S Haegens, AE Martin, Naturalistic Spoken Language Comprehension Is Supported By Alpha And Beta Oscillations, 2023, Journal of Neuroscience
- CW Coopmans, A Mai, S Slaats, **H Weissbart**, AE Martin, What Oscillations Can Do For Syntax Depends On Your Theory Of Structure Building, 2023, Nature Reviews Neuroscience
- M Kegler, **H Weissbart**, T Reichenbach, The Neural Response At The Fundamental Frequency Of Speech Is Modulated By Word-Level Acoustic And Linguistic Information, 2022, Frontiers in Neuroscience
- M Wairagkar, MR Lima, D Bazo, R Craig, **H Weissbart**, AC Etoundi, T Reichenbach, P Iyengar, S Vaswani, C James, P Barnaghi, C Melhuish, R Vaidyanathan, Emotive Response To A Hybrid-Face Robot And Translation To Consumer Social Robots, 2021, IEEE Internet of Things Journal
- **H Weissbart**, KD Kandylaki, T Reichenbach, Cortical Tracking Of Surprisal During Continuous Speech Comprehension, 2020, Journal of cognitive neuroscience

S Kadir, C Kaza, **H Weissbart**, T Reichenbach, Modulation Of Speech-In-Noise Comprehension Through Transcranial Current Stimulation With The Phase-Shifted Speech Envelope, 2019, IEEE Transactions on Neural Systems and Rehabilitation Engineering

Presentations _____

INVITED TALKS

April 2024 - Linear forward models for the analysis of cortical response to naturalistic speech at the seminar: "Using computational models to bridge between neurobiology, psychology, and linguistic theory". Nijmegen, Netherlands.

January 2020 - Cortical tracking of linguistic features in continuous EEG. Invited talk by T. Francart, Leuven, Belgium.

Teaching Experience _____

June 2023	Tutorial on neural time series analysis using linear models , Invited tutor at Cutting EEG Gardens in Nijmegen
March 2023	Time Series Analysis for Cognitive Neuroscience, PhD students, Max Planck Institute
2016 - 2019	Electromagnetics, Undergraduate students, Teaching assistant, Imperial College London
2016 - 2019	Mathematics, Undergraduate students, Teaching assistant, Imperial College London