

## CURRICULUM VITAE – MJ VANSTEENSEL, PHD - MAY 2021

### PERSONAL INFORMATION

Name and title Mariska J Vansteensel, PhD  
Date and place of birth March 30, 1978; Rotterdam  
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Researchgate <https://www.researchgate.net/profile/Mariska-Vansteensel>

### EDUCATION

2001 – 2005 PhD-position '*Hierarchical organization of the circadian timing system*', Laboratory for Neurophysiology, Leiden University Medical Center, Leiden, NL  
Date of completion: June 21, 2006 (cum laude)  
Promotor: Prof. Dr. H.J. Tanke  
Co-Promotor: Dr. J.H. Meijer  
1996 – 2001 Biopharmaceutical Sciences, Leiden University, Leiden, NL  
Propaedeutic phase: August 1997 (cum laude)  
Doctoral exam: May 2001 (cum laude)  
1990 – 1996 Pre-University Education (VWO), Farelcollege, Ridderkerk, NL

### CAREER

2014 – now Assistant Professor, Department of Neurosurgery, UMC Utrecht, NL  
2007 – 2014 Post-doc, Department of Neurosurgery, UMC Utrecht, NL  
2006 – 2007 Post-doc, Laboratory for Neurophysiology, Department of Molecular Cell Biology, Leiden University Medical Center, NL

### SUPERVISED AND COMPLETED PHD THESES

2014-03-13 Martin Bleichner: '*Decoding the acts of language production for controlling brain computer interfaces*'; Department of Neurosurgery, UMC Utrecht; Promotor: NF Ramsey; Co-promotors: MJ Vansteensel, JM Jansma.  
2018-10-05 Mariana Branco Pedroso: '*Boosting BCI Technology*'; Department of Neurosurgery, UMC Utrecht; Promotor: NF Ramsey; Co-promotors: MJ Vansteensel, ZV Freudenburg.  
2019-04-01 Efraim Salari: '*Towards a speech BCI*'; Department of Neurosurgery, UMC Utrecht; Promotor: NF Ramsey; Co-promotors: ZV Freudenburg, MJ Vansteensel.

### AWARDS AND OTHER ACCOMPLISHMENTS

2020 Article '*Encoding of kinetic and kinematic movement parameters in the sensorimotor cortex: A Brain-Computer Interface perspective*' one of top 10% most downloaded articles of Eur J Neurosci between January 2018 and December 2019.  
2017 Translational Neuroscience Prize for article '*Fully Implanted Brain-Computer Interface in a Locked-In Patient with ALS*', Dutch Neuroscience Meeting, Lunteren, NL

2013	Neuroimage Editor's Choice Award for article ' <i>Frequency specific spatial interactions in human electrocorticography: V1 alpha oscillations reflect surround suppression</i> '
2013	Human Brain Mapping Editor's Choice Award for article ' <i>Neurophysiologic Correlates of fMRI in Human Motor Cortex</i> '
2011	Top Science Award for article ' <i>Brain-Computer Interfacing Based on Cognitive Control</i> ', Endo Neuro Psycho Meeting, Lunteren, NL
2000	Prize of the Royal Dutch Society for the Promotion of Pharmacy (KNMP) for outstanding undergraduate study results

## GRANTS

2021	WODC: Scientific Research and Documentation Center of the Ministry of Justice (NL) <i>Chances and Threats of Neurotechnology</i> (60 k€, rol: co-investigator)
2020	National Institute of Neurological Disorders and Stroke (NINDS) <i>Corticom</i> (11.1 M€, role: co-investigator)
2020	Internationalization Committee UMC Utrecht <i>PREP: PREdicting Performance of sensorimotor brain-computer interface control</i> (50 k€, role: PI)
2019	NWO <i>INTENSE – Innovative Neurotechnology for Society</i> (14.9 M€, role: WP-leader)
2019	Wellcome foundation Grant to fund travel of students to the 8th BCI Meeting (5 k€, role: Main applicant)
2017	National Institute on Deafness and Other Communication Disorders (NIDCD) <i>Brain-Computer Interface Implant for Severe Communication Disability</i> (4.9 M€, role: co-investigator)
2017	Utrecht University, Dynamics of Youth project 1001 Critical Days <i>Language representation in children with 22Q11 Deletion Syndrome and children with Developmental Language Disorder</i> (26 k€, role: PI)
2015	Janivo Foundation <i>Development and validation of a clinical fMRI protocol for brain function localization in children with epilepsy</i> (50 k€, role: PI)

## COMMITTEES

2020 – now	Member of the Advisory Council of the Neuroabilities initiative of G3ict, a UN-based alliance to promote the rights of people with disabilities in the digital age
2018	Organizer of the Structure and Functions Crosstalks, UMC Utrecht Brain Center, UMC Utrecht, NL
2013	Organizer of international 2-day symposium 'How cognitive neuroscience can guide therapy', Utrecht, NL, ~100 attendants.
2008 and 2011	Organizer of international 2-day symposium 'Brain-computer interfacing', Utrecht, NL, ~100 attendants.

## REVIEWING AND EDITING ACTIVITIES

2021	Jury member for selection of the winner of the Engineering Prize (500k€) supported by the Cullen Education and Research Fund (CERF)
2020 – 2021	Lead Abstract Reviewer for the 8 <sup>th</sup> International BCI Meeting
2019 – now	Associate Editor, Frontiers in Human Neuroscience – section Brain-Computer Interfaces
2019	Reviewer for ETH Zurich Research Commission
2018	Jury member for Open Technology Program of Dutch Organisation for Scientific Research

- 2017 Reviewer in International Program Committee and Review Board, Graz BCI Conference
- 2012 – now Reviewer for scientific journals, including, but not limited to, New Engl J Med (IF 79.2), J Neurol, Neurosurg Psychiatry (IF 7.1), NeuroImage (IF 5.9), NeuroImage Clin (IF 3.9), J Neural Eng (IF 3.9)

#### MEMBERSHIP SCIENTIFIC SOCIETIES

- 2018 – now Board Member of the BCI Society (bcisociety.org; elected in 2018, re-elected in 2021)  
As board member, I am part of several committees related to the BCI Society, including the Awards Committee, the Communications Committee, the Young Talent Committee and the User Committee.
- 2015 – now Member of the BCI Society (bcisociety.org)
- 2008 – 2011 Member of the Society for Neuroscience (sfn.org)
- 2006 – 2007 Member of the Dutch Society for Sleep-Wake Research (nsw.nl)

#### PUBLIC OUTREACH

- 08-04-2021 Interview Sud-Deutsche Zeitung ‘When das Hirn klickt’  
<https://www.sueddeutsche.de/digital/facebook-gehirn-computer-schnittstelle-elon-musk-1.5256629?reduced=true>
- 05-01-2021 Panelist in online discussion ‘Implantable Brain-Computer Interfaces in late-stage ALS: Real-World Implications’, organized by G3ict  
<https://www.youtube.com/watch?v=87sHelcsZbk>
- 01-2021 Interview in PC Magazine (NL), ‘De opkomst van hersencomputers’
- 11-06-2020 Podcast FSW Brainwave  
<https://open.spotify.com/episode/5lp6m6EgMuhIGL2VqJR3E?si=T8kjt6KT02hIHRNvzANLA>
- 08-06-2020 Interview with Peter Joosten (freelance interviewer) about Neuralink  
<https://www.peterjoosten.net/neuralink/#2020>
- 31-05-2020 Podcast Matter of the Mind about UNP study and BCIs  
<https://anchor.fm/matterofthemind/episodes/An-End-to-Silence-eeqcdt>
- 02-05-2020 Interview in AD Dutch National News Paper & New Scientist – Eureka rubric  
<https://www.newscientist.nl/blogs/mensen-die-niet-meer-kunnen-praten-kunnen-communiceren-via-hersensignalen/>
- 12-03-2020 Wired UK online interview about recent developments in BCI research  
<https://www.wired.co.uk/article/brain-computer-interfaces>
- 05-2018 Article in New Scientist / UMC Utrecht Hersencentrum Special Edition, ‘Uit het brein bevrijd’
- 11-2017 Article in KIJK Magazine, ‘Brein bestuurt machine’
- 18-08-2017 Live talkshow about BCIs and UNP study, Lowlands Festival, Biddinghuizen, NL
- 28-11-2016 Podcast interview on Austrian National Radio about UNP study
- 19-11-2016 MedicalResearch.com web-interview on UNP study
- 17-11-2016 Kennis van Nu TV documentary about UNP study
- 15-11-2016 Volkskrant National Newspaper interview about UNP study
- 14-11-2016 Een Vandaag TV broadcast and live Radio interview about UNP study

#### PUBLICATIONS

A full list of my publications can be found at

<https://www.ncbi.nlm.nih.gov/myncbi/1d5QWUQfvx3A6/bibliography/public/>