

Stephen Whitmarsh

Annex to Curriculum Vitae

 0000-0002-3969-6565
 [stephen-whitmarsh-6a043347/](mailto:stephen-whitmarsh-6a043347@icm-institute.dac)
 [stephenwhitmarsh](https://github.com/stephenwhitmarsh)
 [icm-institute/dac](https://icm-institute.dac)
 [Z7SYHWwAAAAJ](https://doi.org/10.21203/rs.3.rs-2754741/v1)

Summary

This annex details peer-reviewed publications, grants, workshops, conferences and art–science projects that complement the main CV. It highlights interdisciplinarity, community building, open science, creative practices, and knowledge dissemination.

- 20+ peer-reviewed publications in neuroscience, clinical research, engineering & machine learning.
- 1M€+ funding from ANR, EQUIPEX+, BIAL Foundation, and cultural agencies.
- 15+ international and national scientific public workshops with a focus on open science.
- 30+ art–science projects in major art institutions across Europe, North America, and Asia.

Publications

S. Whitmarsh, V.-H. Nguyen-Michel, K. Lehongre, B. Mathon, C. Adam, V. Lambrecq, V. Frazzini, and V. Navarro. Sleep increases firing rate modulation during interictal epileptiform discharges in mesial temporal structures. *Brain Communications*, 8(3):fcag130, May 2026.

B. T. Hutchinson, J. Kuczynska, J. Uddén, **S. Whitmarsh**, and H. Slagter. Does mindfulness reduce automatic preference development? *Mindfulness (in press)*, 2026.

I. Khemir, **S. Whitmarsh**, E. Bardinet, and R. Valabregue. Data-efficient synthetic training for unified segmentation of healthy and abnormal brain tissue. In *Colloque Français d'Intelligence Artificielle En Imagerie Biomédicale (IABM)*, 2026.

S. Liang, C. Yu, Q. Wang, D. Roussel, **S. Whitmarsh**, K. Lehongre, A. Levchenko, V. Navarro, and T. Palpanas. Zero-to-Hero: Knowledge-guided Unsupervised Active Learning for EEG-based Detection of Interictal Epileptiform Discharges. *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases*, 2026.

F. Di Maggio, A. Tanaka, D. Fierro, and **S. Whitmarsh**. An interactive modular system for electrophysiological DMIs. In *Proceedings of the 18th International Audio Mostly Conference*. ACM, August 2023.

A. Tanaka, D. Fierro, F. D. Maggio, M. Klang, and **S. Whitmarsh**. The EAVI EMG/EEG Board: Hybrid physiological sensing. In *NIME 2023*, Mexico City, Mexico, May 2023. Zenodo.

A. Tanaka, A. Sèdes, A. Bonardi, **S. Whitmarsh**, D. Fierro, and F. Di Maggio. Brain-body digital musical instrument work-in-progress. In *ISEA 2023 - 28th International Symposium on Electronic Art*, Paris, France, May 2023. Le Cube Garges and Ecole Nationale Supérieure des Arts Décoratifs and Forum des Images.

V. Frazzini, **S. Whitmarsh**, K. Lehongre, P. Yger, J.-D. Lemarechal, B. Mathon, C. Adam, D. Hasboun, V. Lambrecq, and V. Navarro. Human periventricular nodular heterotopia shows several interictal epileptic patterns and hyperexcitability of neuronal firing. *Frontiers in Neurology*, 13, November 2022.

Q. Wang, **S. Whitmarsh**, V. Navarro, and T. Palpanas. iDeaL: A deep learning framework for detecting highly imbalanced interictal epileptiform discharges. In *VLDB Endowment*, VLDB Endowment. VLDB Endowment, 2022.

S. Whitmarsh, C. Gitton, V. Jousmäki, J. Sackur, and C. Tallon-Baudry. Neuronal correlates of the subjective experience of attention. *European Journal of Neuroscience*, 55(11–12):3465–3482, July 2021.

D. De Paulis, **S. Whitmarsh**, R. Oostenveld, G. Dumas, and M. Sanders. "COGITO in Space": A thought experiment in exo-neurobiology. *Earth and Space Science Open Archive*, August 2020.

S. Whitmarsh, O. Jensen, and H. Barendregt. Mindfulness meditation experience is associated with increased ability to monitor covert somatosensory attention. *bioRxiv*, February 2020.

M. Xie, J. F. Schneiderman, M. L. Chukharkin, A. Kalabukhov, B. Riaz, D. Lundqvist, **S. Whitmarsh**, M. Hamalainen, V. Jousmaki, R. Oostenveld, and D. Winkler. Benchmarking for on-scalp MEG sensors. *IEEE Transactions on Biomedical Engineering*, 64(6):1270–1276, June 2017.

S. Whitmarsh, R. Oostenveld, R. Almeida, and D. Lundqvist. Metacognition of attention during tactile discrimination. *NeuroImage*, 147:121–129, February 2017.

M. Bourguignon, **S. Whitmarsh**, H. Piitulainen, R. Hari, V. Jousmäki, and D. Lundqvist. Reliable recording and analysis of MEG-based corticokinematic coherence in the presence of strong magnetic artifacts. *Clinical Neurophysiology*, 127(2):1460–1469, February 2016.

L. Ahmed, A. Edlund, E. Laure, and **S. Whitmarsh**. Parallel real time seizure detection in large EEG data. In *Proceedings of the International Conference on Internet of Things and Big Data*. SCITEPRESS - Science and Technology Publications, 2016.

M. Xie, J. F. Schneiderman, M. L. Chukharkin, A. Kalabukhov, **S. Whitmarsh**, D. Lundqvist, and D. Winkler. High-Tc SQUID vs. low-Tc SQUID-based recordings on a head phantom: Benchmarking for magnetoencephalography. *IEEE Trans. Appl. Supercond.*, 25(3):1–5, June 2015.

S. Whitmarsh, H. Barendregt, J.-M. Schoffelen, and O. Jensen. Metacognitive awareness of covert somatosensory attention corresponds to contralateral alpha power. *NeuroImage*, 85:803–809, January 2014.

H. T. Van Schie, **S. Whitmarsh**, J. Wouters, and O. Jensen. Neurofeedback as an experimental technique: Controlled theta oscillations modulate reaction times in a

Sternberg working memory task. In *Conference Program and Abstracts SAN/NIHC 2014 Meeting (Utrecht: Society of Applied Neuroscience)*, 2014.

S. Whitmarsh, J. Uddén, H. Barendregt, and K. M. Petersson. Mindfulness reduces habitual responding based on implicit knowledge: Evidence from artificial grammar learning. *Consciousness and Cognition*, 22(3):833–845, September 2013.

José Almeida Pereira, Daniele Balit, Yane Calovski, Miguel Carvalhais, André Cepeda, Lisa Cepeda, Ewen Chardonnet, Sandra Correia, Gustavo Costa, Klas Eriksson, Norberto Fernandes, João Filipe, Sara Giannini, Diana Gonçalves dos Santos, Per Hüttner, Marita Lumi, Celia Machado, Maud Malon, Loreto Martinez Troncoso, Jacopo Miliani, Raffaella della Olga, Marco Pasi, Cristina Regadas, Natasha Rosling, Alessandra Sandrolini, Claudia Squitieri, Srosh Ensemble, Samon Takahashi, F. Üstek, and **S. Whitmarsh**. *OuUnPo(RTO) Ouvroir d'Univers Potentiels Vol.9 (Recreative Temporary Orbit) Book and Audio CD*. Dent-de-Leone, 2013.

S. Whitmarsh, I. L. C. Nieuwenhuis, H. P. Barendregt, and O. Jensen. Sensorimotor alpha activity is modulated in response to the observation of pain in others. *Frontiers in Human Neuroscience*, 5, 2011.

D. J. Bierman and **S. Whitmarsh**. Consciousness and quantum physics: Empirical research on the subjective reduction of the statevector. In *The Frontiers Collection*, pages 27–48. Springer Science Business Media, 2006.

Grants & Funding

- 2021–2028 **ANR EQUIPEX+: Mutualised Digital Spaces for Life Sciences (MUDIS4LS)**, *Implementation study IS3*, Paris Brain Institute
- 2021–2025 **ANR PRCE: Brain Body Digital Music Instruments (BBDMI)**, *Scientific coordinator*, with A. Sedes (MSH Paris Nord), A. Bonardi (CICM / Paris 8), and A. Tanaka (Goldsmiths University, London)
- 2009–2012 **BIAL Foundation: Mindfulness and emotional factors in medical decision-making**, *University of Amsterdam, Amsterdam, NL*, with D.J. Bierman
- 2022 **Svenska kulturfonden (176459)**, *Helsinki, FI*
The Swedish Arts Council (KUR 2022_2174), *Stockholm, SE*
- 2021 **Kulturbryggan (KN 2021-11433)**, *Stockholm, SE*
- 2020 **Helge Ax:son Johnsons Stiftelse (K20-0506)**, *Stockholm, SE*
Längmanska kulturfonden (BA20-0779), *Stockholm, SE*
Kulturbryggan (KN 2020-2439), *Stockholm, SE*
Kulturfonden för Sverige och Finland (2682), *SE/FI*
Swedish Arts Council (2020/2844), *Stockholm, SE*
- 2019 **Nordic Culture Point (ID: 22039)**, *Helsinki, FI*
- 2018 **Musikverket (0986/18)**, *Stockholm, SE*
Nordic Culture Fund (B2018.0752), *Copenhagen, DK*
Helge Ax:son Johnsons Stiftelse (K18-0160), *Stockholm, SE*

- 2017 [Kulturbryggan \(KN 2017-6625\)](#), *Stockholm, SE*
[City of Stockholm \(6.1/2568/2017\)](#)
[Swedish Arts Council \(2017/6074\)](#), *Stockholm, SE*
- 2016 [Kulturbryggan \(501165\)](#), *Stockholm, SE*
[Stockholm County Council \(KN 2016/547\)](#)
[Swedish Arts Grants Committee](#), *Stockholm, SE*
[Helge Ax:son Johnsons Stiftelse](#), *Stockholm, SE*
- 2015 [Innovativ kultur](#), *Stockholm, SE*
- 2014 [Swedish Arts Council \(2014/6674\)](#), *Stockholm, SE*

Public Workshops

- 2025 [Hackthion Potential](#), *Paris Brain Institute, Paris, FR*
- 2024 [Unraveling Cellular Landscapes: Advances in Spatial Transcriptomics](#), *Journées Ouvertes en Biologie, Informatique, et Mathématiques, Toulouse, FR*
- 2023 [Open Neuroscience Workshop](#), *Paris Brain Institute, Paris, FR*
[Semaine du Cerveau](#), *Paris Brain Institute, Paris, FR*
- 2022 [European Heritage Days](#), *MSH Paris Nord, Saint-Denis, FR*
- 2021 [No Glitch, No Glory!](#), *Film & Photo Academy, Breda, NL*
[Creative Computing](#), *University of Leicester, Leicester, UK*
- 2019 [PracticalMEEG](#), *Paris Brain Institute, Paris, FR*
[Cutting-EEG](#), *Paris Brain Institute, Paris, FR*
- 2018 [Workshop](#), *École Nationale Supérieure des Beaux-Arts, Paris, FR*
- 2016 [Brainhack](#), *École Normale Supérieure, Paris, FR*
- 2015 [FieldTrip Toolkit](#), *Donders Center, Nijmegen, NL*
[Cognitive Neuroscience Group](#), *Goethe University, Frankfurt, DE*
- 2014 [MEG analysis workshop](#), *MEG-UK, Birmingham, UK*
[EEG & MEG analysis](#), *Karolinska Institute, Stockholm, SE*
[FieldTrip & MNE toolkit](#), *Karolinska Institute, Stockholm, SE*
[Meaning of Things](#), *Fondazione Antonio Ratti, Como, IT*
- 2011 [FieldTrip toolkit](#), *City University of New York, New York, US*

Conference Presentations

- 2025 [Art, Science & AI](#), *École nationale supérieure des Beaux-Arts, Paris, FR*
[NeuroGrad Summer School](#), *University Claude Bernard, Lyon, FR*
- 2023 [Open Science Workshop](#), *Bordeaux Neurocampus, Bordeaux, FR*
- 2017 [Music and Neuroscience](#), *IRCAM, Paris, FR*
- 2015 [Lecture/Performance](#), *Elektronmusikstudion EMS, Stockholm, SE*
[Art and Educational Processes](#), *Linnéuniversitet, Växjö, SE*
- 2014 [PhD program](#), *Karolinska Institute, Stockholm, SE*

- Master Cognitive Neuroscience**, *University College Utrecht*, Utrecht, NL
- 2013 **I am a Curator**, *David Roberts Art Foundation*, London, UK
- 2012 **Towards a Science of Consciousness**, *University of Arizona*, Tucson, US
- 2011 **Towards a Science of Consciousness**, *Karolinska Institute*, Stockholm, SE
- 2009 **1:1 Projects**, *Press to exit project space*, Skopje, MK
- 2007 **Graduate course psychology**, *University of Amsterdam*, Amsterdam, NL
- Quantummind**, *University of Salzburg*, Salzburg, AT

Art–Science Activities

- 2024 **Steady-State V2 residency**, *La Générale, Laboratoire artistique politique et social*, Paris, FR
- 2023 **Steady-State**, *Café de Paris*, Paris, FR
- Steady-State**, *Le Cube*, Garges-lès-Gonesse, FR
- Improtech**, *Uzeste Festival*, Uzeste, FR
- Journées d'Informatique Musicale**, *MSH*, Saint-Denis, FR
- ISEA2023 Symbiosis**, *Forum des images*, Paris, FR
- 2022 **International Conference on Live Interfaces**, Lisbon, PT
- 2021 **DNArchi 2021**, *Online*, FR
- Transformation II**, *π -Node Antivirus*, Online
- 2019 **COGITO in Space**, *Antennae*, Feature
- Andouillette**, *Aalto University*, Helsinki, FI
- 1+1=3**, *Akusmata*, Helsinki, FI
- Performance with lecture A. Tanaka**, *University of London Institute*, Paris, FR
- Symbiotics**, *R1 Reactorhallen*, Stockholm, SE
- Transformation festival**, *Organizer*, Stockholm, SE
- 2018 **Journée de Science et Musique**, Rennes, FR
- COGITO in Space**, *Dwingeloo Radiotelescope*, Dwingeloo, NL
- Sonic Neuroscience**, *Paris Brain Institute*, Paris, FR
- Residency/Performance: Hemispherics**, *IKLECTIK*, London, UK
- Open workshop**, *Folie Numerique, La Villette*, Paris, FR
- Semaine du cerveau**, *École Normale Supérieure*, Paris, FR
- Retour vers le Second Square!**, *Le Carreau du Temple*, Paris, FR
- COGITO in Space**, *TecArt festival*, Rotterdam, NL
- 2017 **Brain Brunch**, *École Nationale Supérieure des Beaux-Arts*, Paris, FR
- The Electric Brain**, *Charcot Library, ICM*, Paris, FR
- Se2017**, *Karolinska Institute*, Stockholm, SE
- COGITO**, *Astron*, Dwingeloo, NL
- 2016 **1-1=3 with Marcos Lutyens**, *5 Car Garage*, Los Angeles, US
- Residency**, *A Ship in the Woods*, San Diego, US

- Towards a Science of Consciousness**, *University of Arizona*, Tucson, US
- The sound of Brainwaves**, *EMS*, Stockholm, SE
- 2015 **Studio Performance**, *Huhta Home Studio, with Carima Neusser*, Stockholm, SE
- Sleep Algorithm**, *Södra Bar*, Stockholm, SE
- What Where Rescored**, *SP Escola de Teatro*, São Paulo, BR
- 2014 **What is it like to be a Neuron?**, *Wacoal Art Center*, Tokyo, JP
- Implicit Association Task**, *Pinacoteca do Estado*, São Paulo, BR
- 2010 **Ponder, Pause, Process**, *Tate Britain*, London, UK