

Stephen Whitmarsh

Annexe au Curriculum Vitae

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Résumé

Cette annexe détaille les publications évaluées par les pairs, financements, ateliers, conférences et projets art-science qui complètent le CV principal. Elle met en lumière l'interdisciplinarité, la création de communautés, la science ouverte et la diffusion des connaissances.

- 20+ publications en neurosciences, recherche clinique, ingénierie et I.A.
- 1 M€+ de financement de l'ANR, EQUIPEX+, Fondation BIAL et agences culturelles.
- 15+ ateliers scientifiques publics internationaux et nationaux axés sur la science ouverte.

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. iEDeaL : 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.

Financements

- 2021–2028 **ANR EQUIPEX+ : Espaces numériques mutualisés pour les sciences de la vie (MUDIS4LS)**, *Étude de mise en œuvre IS3*, Institut du Cerveau
- 2021–2025 **ANR PRCE : Brain Body Digital Music Instruments (BBDMI)**, *Coordinateur scientifique*, avec A. Sedes (MSH Paris Nord), A. Bonardi (CICM / Paris 8), et A. Tanaka (Goldsmiths University, Londres)
- 2009–2012 **Fondation BIAL : Pleine conscience et facteurs émotionnels dans la prise de décision médicale**, *Université d'Amsterdam, Amsterdam, Pays-Bas*
- 2022 **Svenska kulturfonden (176459)**, *Helsinki, Finlande*
Conseil suédois des arts (KUR 2022_2174), *Stockholm, Suède*
- 2021 **Kulturbryggan (KN 2021-11433)**, *Stockholm, Suède*
- 2020 **Helge Ax :son Johnsons Stiftelse (K20-0506)**, *Stockholm, Suède*
Längmanska kulturfonden (BA20-0779), *Stockholm, Suède*
Kulturbryggan (KN 2020-2439), *Stockholm, Suède*
Kulturfonden för Sverige och Finland (2682), *Suède/Finlande*
Conseil suédois des arts (2020/2844), *Stockholm, Suède*
- 2019 **Nordic Culture Point (ID : 22039)**, *Helsinki, Finlande*
- 2018 **Musikverket (0986/18)**, *Stockholm, Suède*
Nordic Culture Fund (B2018.0752), *Copenhagen, Danemark*
Helge Ax :son Johnsons Stiftelse (K18-0160), *Stockholm, Suède*
- 2017 **Kulturbryggan (KN 2017-6625)**, *Stockholm, Suède*
Ville de Stockholm (6.1/2568/2017)
Conseil suédois des arts (2017/6074), *Stockholm, Suède*
- 2016 **Kulturbryggan (501165)**, *Stockholm, Suède*
Conseil du comté de Stockholm (KN 2016/547)
Comité suédois des bourses artistiques, *Stockholm, Suède*
Helge Ax :son Johnsons Stiftelse, *Stockholm, Suède*
- 2015 **Innovativ kultur**, *Stockholm, Suède*
- 2014 **Conseil suédois des arts (2014/6674)**, *Stockholm, Suède*

Ateliers Publics

- 2025 **Hackthion Potential**, *Institut du Cerveau*, Paris, France
- 2024 **Décrypter les paysages cellulaires : Avancées en transcriptomique spatiale**, *Journées Ouvertes en Biologie, Informatique, et Mathématiques*, Toulouse, France
- 2023 **Atelier Neurosciences Ouvertes**, *Institut du Cerveau*, Paris, France
Semaine du Cerveau, *Institut du Cerveau*, Paris, France
- 2022 **Journées européennes du patrimoine**, *MSH Paris Nord*, Saint-Denis, France
- 2021 **No Glitch, No Glory!**, *Film & Photo Academy*, Breda, Pays-Bas
Creative Computing, *University of Leicester*, Leicester, Royaume-Uni
- 2019 **PracticalMEEG**, *Institut du Cerveau*, Paris, France
Cutting-EEG, *Institut du Cerveau*, Paris, France
- 2018 **Atelier**, *École Nationale Supérieure des Beaux-Arts*, Paris, France
- 2016 **Brainhack**, *École Normale Supérieure*, Paris, France
- 2015 **FieldTrip toolkit**, *Centre Donders*, Nimègue, Pays-Bas
Groupe de neurosciences cognitives, *Université Goethe*, Francfort, Allemagne
- 2014 **Atelier d'analyse MEG**, *MEG-UK*, Birmingham, Royaume-Uni
Analyse EEG & MEG, *Institut Karolinska*, Stockholm, Suède
Boîtes à outils FieldTrip & MNE, *Institut Karolinska*, Stockholm, Suède
Meaning of Things, *Fondazione Antonio Ratti*, Côme, Italie
- 2011 **FieldTrip toolkit**, *City University of New York*, New York, États-Unis

Conférences

- 2025 **Art, Science & IA**, *École nationale supérieure des Beaux-Arts*, Paris, France
École d'été NeuroGrad, *Université Claude Bernard*, Lyon, France
- 2023 **Atelier Science Ouverte**, *Bordeaux Neurocampus*, Bordeaux, France
- 2017 **Musique et neurosciences**, *IRCAM*, Paris, France
- 2015 **Conférence/Performance**, *Elektronmusikstudion EMS*, Stockholm, Suède
Processus artistiques et éducatifs, *Linnéuniversitet*, Växjö, Suède
- 2014 **Programme doctoral**, *Institut Karolinska*, Stockholm, Suède
Master en neurosciences cognitives, *University College Utrecht*, Pays-Bas
- 2013 **I am a Curator**, *David Roberts Art Foundation*, Londres, Royaume-Uni
- 2012 **Towards a Science of Consciousness**, *Université d'Arizona*, Tucson, États-Unis
- 2011 **Towards a Science of Consciousness**, *Institut Karolinska*, Stockholm, Suède
- 2009 **Projets 1 :1**, *Press to exit project space*, Skopje, Macédoine du Nord
- 2007 **Cours de master en psychologie**, *Université d'Amsterdam*, Amsterdam, Pays-Bas
Quantummind, *Université de Salzbourg*, Salzbourg, Autriche