

Sofia Rita Cardoso Fernandes

Sofia Fernandes is a doctorate researcher at the Instituto de Biofísica e Engenharia Biomédica (IBEB) of Faculdade de Ciências, Universidade de Lisboa (FCUL), Portugal. She has a PhD in Neurosciences. Her research is dedicated to study the effects of electromagnetic stimulation in biological tissues for therapeutic applications, using realistic computational models of the human brain and spinal cord, field of research that she leads at IBEB since September 2022. Her academic background combines clinical and exact sciences, with BScs. in Physiotherapy and Physics, and MSc. in Astrophysics, reflecting a multidisciplinary research methodology. Sofia published 9 articles in international peer-reviewed journals (5 in Q1 of respective fields), 2 book chapters and 25 conference proceedings. Currently, she is an invited professor in the MSc. programs in Biophysics and Biomedical Engineering (FCUL) and in Physiotherapy (Escola Superior da Tecnologia da Saúde de Lisboa, ESTEsL), where she lectures Bioelectricity and Electrophysiology and Human Movement and Motor Control, respectively. She is also supervisor of 2 PhD and 9 MSc students (3 completed, 2 as consultant). She was in the organizing committees of PSMR 2017 and BHBM 2022 international conferences, invited speaker in 1 international conference on neurophysiology in 2019, and organizer of 3 symposiums in 3 international conferences on modelling and experimental strategies in non-invasive spinal stimulation (1 in 2020 and 2 in 2022). She is guest editor of the special issues "Electromagnetic Modeling for Brain Stimulation" (PMB, IOP Science) and "Emerging Talents in Human Neuroscience: Neuromodulation 2023" (Frontiers in Human Neuroscience). Sofia is currently the portuguese PI in the international consortium "DC4MND-Multidimensional mechanistic investigations of trans-spinal direct current stimulation in motor neuron disease", awarded by the JPND 2022 call. She also has ongoing collaborations with the University of Texas Southwestern and the University of Seville. Her previous experience includes a doctorate researcher position in the FCT R&D project Stimuli2BioScaffold - PTDC/EME-SIS/32554/2017 at CDRSP - Centre for Rapid and Sustainable Product Development, from the Instituto Politécnico de Leiria, Portugal, during 2020, in modelling strategies to optimize electromagnetic applications in Tissue Engineering, with whom she still collaborates. Sofia had also previous researcher positions in FCT projects DAI/2019/13 (statistical analysis of ALS biomarkers, Nova Medical School, 2019) and PESO/P/PRO/40154/2000 (analysis of near-IR images of circumstellar disks, FCUL, 2001-03). She also won a 4-year FCT PhD scholarship in 2014 (SFRH/BD/100254/2014).

Identification

Personal identification

Full name

Sofia Rita Cardoso Fernandes

Citation names

Fernandes, Sofia Rita

Fernandes SR

Fernandes, S.R.

Sofia R Fernandes

Author identifiers

Ciência ID

0D18-893A-C016

ORCID iD

[0000-0002-0576-8364](#)

Email addresses

srcfernandes@fc.ul.pt (Professional)
sofiarita19@gmail.com (Personal)

Telephones

Mobile phone
(+351) 914072685 (Personal)

Addresses

Rua Aliança Operária, 50, 2º Direito, 1300-049 Lisboa, Lisboa, Portugal (Personal)

Websites

<https://www.researchgate.net/profile/Sofia-Rita-Fernandes> (Feed)

Knowledge fields

Engineering and Technology - Medical Engineering - Medical Engineering
Medical and Health Sciences - Basic Medicine - Neurosciences
Medical and Health Sciences - Health Sciences - Sport and Fitness Sciences
Medical and Health Sciences - Medical Biotechnology - Technologies Involving the Manipulation of Cells, Tissues, Organs or the Whole Organism

Languages

| Language | Speaking | Reading | Writing | Listening | Peer-review |
|-------------------------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| Portuguese (Mother tongue) | | | | | |
| English | Advanced (C1) | Advanced (C1) | Advanced (C1) | Advanced (C1) | Advanced (C1) |
| French | Elementary (A2) | Intermediate (B1) | Elementary (A2) | Intermediate (B1) | Elementary (A2) |

Education

| | Degree | Classification |
|--------------------------------------|--|----------------------------------|
| 2013/09 - 2019/10/07 Concluded | Neurociências (Doutoramento) Major in Ramo/Especialidade: Ciências Biomédicas, especialidade de Neurociências Universidade de Lisboa Faculdade de Medicina, Portugal <i>"Transcutaneous Spinal Direct Current Stimulation: Modelling the spinal electric field distribution and clinical relevance" (THESIS/DISSERTATION)</i> | 18 - with Honors and Distinction |
| 2005/09/19 - 2009/07/20 Concluded | Fisioterapia (Licenciatura) Major in Fisioterapia Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal | 16 points (in 20) |

| | | |
|---|---|-------------------|
| 2001/09/23 - 2003/10/31 Concluded | Astronomia e Astrofísica (Mestrado) Major in Astronomy and Astrophysics Universidade de Lisboa Faculdade de Ciências, Portugal <i>"Frequência de Discos Circum-Estelares no enxame Aberto NGC 2547: Estudo do Excesso de Emissão no Infravermelho Próximo" (THESIS/DISSERTATION)</i> | Very Good |
| 1994/09/19 - 2001/12/12 Concluded | Física (Licenciatura) Major in Physics Universidade de Lisboa Faculdade de Ciências, Portugal | 14 points (in 20) |

Affiliation

Science

| | Category Host institution/organization | Employer |
|----------------------------|--|--|
| 2021/01/01 - Current | Postdoc (Research) Universidade de Lisboa Faculdade de Ciências, Portugal | Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal |
| 2020/01/06 - 2020/12/31 | Postdoc (Research) Instituto Politécnico de Leiria Centro para o Desenvolvimento Rápido e Sustentado de Produto, Portugal | Instituto Politécnico de Leiria Centro para o Desenvolvimento Rápido e Sustentado de Produto, Portugal |
| 2019/05/01 - 2019/10/31 | Researcher (Research) Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal | Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal |
| 2015/03/01 - 2019/02/28 | Researcher (Research) Universidade de Lisboa Faculdade de Medicina, Portugal | Fundação para a Ciéncia e a Tecnologia, Portugal |
| 2001/10/01 - 2003/10/01 | Researcher (Research) Universidade de Lisboa Faculdade de Ciências, Portugal | Universidade de Lisboa Faculdade de Ciências, Portugal |

Projects

Grant

| | Designation | Funders |
|-------------------------|---|---|
| 2023/06/01 - Current | <p>DC4MND- Multidimensional mechanistic investigations of trans spinal direct current stimulation in motor neuron disease jnpd2022-010</p> <p>Co-Principal Investigator (Co-PI) Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal</p> | Fundação para a Ciência e a Tecnologia, Portugal EU Joint Programme Neurodegenerative Disease Research, Germany Ongoing |
| 2019/05/01 - 2019/10/31 | <p>Avaliação Detalhada de MicroRNA circulantes como biomarcadores de diagnóstico e prognóstico em Esclerose Lateral Amiotrófica PTDC/MEC-NEU/31195/2017</p> <p>Research Fellow Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal</p> | Fundação para a Ciência e a Tecnologia, Portugal |
| 2015/03/01 - 2019/02/28 | <p>Transcutaneous Spinal Direct Current Stimulation: Modelling the spinal electric field distribution and clinical relevance. SFRH/BD/100254/2014</p> <p>PhD Student Fellow Universidade de Lisboa Faculdade de Medicina, Portugal</p> | Fundação para a Ciência e a Tecnologia, Portugal Concluded |
| 2001/10/01 - 2003/10/01 | <p>The Nearest Planet Nurseries: Protoplanetary Disk Fraction in Young Clusters, and the Timescale for Planet Formation info:eu-repo/grantAgreement/FCT/PDCT/40154/PT</p> <p>Master Student Fellow Universidade de Lisboa Faculdade de Ciências, Portugal</p> | Fundação para a Ciência e a Tecnologia, Portugal Concluded |

Contract

| | Designation | Funders |
|-------------------------|--|---|
| 2021/01/01 - Current | <p>Programmatic Funding of IBEB UIDP/00645/2020</p> <p>Post-doc Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal</p> | Fundação para a Ciência e a Tecnologia, Portugal Ongoing |
| 2020/01/06 - 2020/12/31 | <p>Stimuli2BioScaffolds - Stimuli modelling for BioScaffolds: from numerical modelling to in vitro tests C492074784-00085914</p> <p>Post-doc Instituto Politécnico de Leiria Centro para o Desenvolvimento Rápido e Sustentado de Produto,</p> | Fundação para a Ciência e a Tecnologia, Portugal Ongoing |

Outputs

Publications

- Book chapter
- 1 Fernandes SR; Pereira M; Elbasiouny SM; Dhaher Y; de Carvalho M; Miranda PC. Corresponding author: Fernandes SR. "Interplay between Electrical Conductivity of Tissues and Position of Electrodes in Transcutaneous Spinal Direct Current Stimulation (tsDCS)". In *Brain & Human Body Modelling Book Series 2021*. Springer Nature, 2021.
In press
 - 2 Fernandes SR; Salvador R; de Carvalho M; Miranda PC. "Modelling Studies of Non-invasive Electric and Magnetic Stimulation of the Spinal Cord (9 citations)". In *Brain and Human Body Modeling 2020*, 139-165. Springer International Publishing, 2020.
Published · 10.1007/978-3-030-45623-8_8
 - 3 Fernandes SR; Pereira M; de Carvalho M; Miranda PC. "Non-invasive Spinal Cord Stimulation: Relevance of Modelling Studies in Clinical Protocol Design". In *XV Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019*, 1767-1773. Switzerland: Springer International Publishing, 2019.
Published · 10.1007/978-3-030-31635-8_214
-
- Conference abstract
- 1 Fernandes SR; Wenger C; Salvador R; de Carvalho M; Miranda PC. "Transcutaneous Spinal Direct Current Stimulation: Modelling the Electric Field Distribution in the Cervical Spinal Cord.". Paper presented in *3rd International Congress on Neurotechnology, Electronics and Informatics – Neurotechnix 2015, LISBOA*, 2015.
Published
 - 2 Fernandes SR; Wenger C; Salvador R; de Carvalho M; Miranda PC. "Transcutaneous Spinal Cord Stimulation: Modeling the Electric Field Distribution using the Finite Element Method.". Paper presented in *Proceedings of the 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society 2015, Milan*, 2015.
Published
-
- Conference paper
- 1 Videira AS; Canadas D; De O. Pires L; Andrade A; Ferreira HA; Miranda PC; Fernandes SR. "How the Number and Distance of Electrodes Change the Induced Electric Field in the Cortex during Multichannel tDCS (1 citation)". 2022.
10.1109/embc48229.2022.9871114
 - 2 Meneses J; Fernandes SR; Alves N; Pascoal-Faria P; Miranda PC. "Effects of Scaffold Electrical Properties on Electric Field Delivery in Bioreactors (1 citation)". 2021.
10.1109/embc46164.2021.9630711
 - 3 Fernandes SR; Meneses J; Datta A; Amado S; Alves N; Pascoal-Faria P. "Comparison of electromagnetic stimulation fields generated by different experimental setups: A biophysical analysis". 2020.

10.1063/5.0081338

- 4 Meneses J; Fernandes SR; Datta A; Amado S; Alves N; Pascoal-Faria P. "Numerical modelling of a bioreactor design targeting optimal conditions for cell culture". 2020.
10.1063/5.0081336
- 5 Fernandes SR; Salvador R; de Carvalho M; Miranda PC. "Electric Field Distribution during Non-Invasive Electric and Magnetic Stimulation of the Cervical Spinal Cord (3 citations)". 2019.
10.1109/EMBC.2019.8857129
- 6 Fernandes SR; Teixeira PS; Correia J; Alves J; Santos FD; Lada EA. "What Can We Learn from Protoplanetary Disk Frequency in Young Clusters?". Paper presented in *Extrasolar Planets: Today and Tomorrow, held 30 June - 4 July 2003, Institut D'Astrophysique de Paris, France.*, Paris, 2003.
Published
- 7 Teixeira PS; Fernandes SR; Alves JF; Correia J; Santos FD; Lada EA. "Timescale for Disk Dissipation in Young Clusters". Paper presented in *Extrasolar Planets: Today and Tomorrow, ASP Conference Proceedings, Vol. 321, held 30 June - 4 July 2003, Institut D'Astrophysique de Paris, France.*, Paris, 2003.
- 8 Teixeira PS; Fernandes SR; Alves JF; Correia J; Lada C; Lada EA; Santos FD. "What can we Learn from Disk Frequency in Young Clusters?". Paper presented in *Star Formation at High Angular Resolution, International Astronomical Union. Symposium no. 221, held 22-25 July, 2003 in Sydney, Australia, Sydney*, 2003.
- 9 Fernandes SR; Teixeira PS; Alves JF; Correia J; Santos FD; Lada C. "Protoplanetary Disk Fraction in Young Clusters and the Timescale for Planet Formation". Paper presented in *2002 International Astronomical Observatories in Chile workshop, held 11-15 March 2002 at La Serena, Chile.*, La Serena, 2002.

Journal article

- 1 Marques da Silva V; Ferreira HA; Fernandes SR. "Effect of tDCS montages in EEG-based functional connectivity of the sensorimotor network". *Brain Stimulation* 16 1 (2023): 372. <http://dx.doi.org/10.1016/j.brs.2023.01.732>
Published · 10.1016/j.brs.2023.01.732
- 2 Fernandes SR; Pereira M; Andrade A; Ferreira HA; de Carvalho M. "Model-guided transcutaneous direct current stimulation of the brain and spinal cord to repair ALS-induced motor dysfunctions". *Brain Stimulation* 16 1 (2023): 187-188. <http://dx.doi.org/10.1016/j.brs.2023.01.218>
10.1016/j.brs.2023.01.218
- 3 Pereira M; Fernandes SR; Miranda PC; de Carvalho M. "Lumbar trans-spinal direct current stimulation: A modeling-experimental approach to dorsal root ganglia stimulation (1 citation)". *Frontiers in Neuroscience* 16 (2022): <http://dx.doi.org/10.3389/fnins.2022.1041932>.
Published · Open access · 10.3389/fnins.2022.1041932
- 4 Pereira M; Fernandes SR; De Carvalho M; Miranda PC. "TH-183. Relevance of realistic human models to guide non-invasive spinal stimulation: A review of current findings". *Clinical Neurophysiology* 141 (2022): S139. <http://dx.doi.org/10.1016/j.clinph.2022.07.363>.

10.1016/j.clinph.2022.07.363

- 5 Meneses J; Fernandes SR; Alves N; Pascoal-Faria P; Miranda PC. "How to correctly estimate the electric field in capacitively coupled systems for tissue engineering: a comparative study (3 citations)". *Scientific Reports* 12 1 (2022): <http://dx.doi.org/10.1038/s41598-022-14834-2>.
Published · Open access · 10.1038/s41598-022-14834-2
- 6 de Carvalho M; Fernandes SR; Pereira M; Gromicho M; Santos MO; Alves I; Pinto S; Swash M. "Respiratory function tests in amyotrophic lateral sclerosis: The role of maximal voluntary ventilation (2 citations)". *Journal of the Neurological Sciences* 434 (2022): 120143. <http://dx.doi.org/10.1016/j.jns.2022.120143>.
Published · Open access · 10.1016/j.jns.2022.120143
- 7 Pereira M; Fernandes SR; Miranda PC; de Carvalho M. "Neuromodulation of lower limb motor pathways with trans-spinal direct current stimulation: an overview of current findings". *Annals of Medicine* 53 sup1 (2021): S24-S25. <http://dx.doi.org/10.1080/07853890.2021.1896902>.
10.1080/07853890.2021.1896902
- 8 Meneses J; Silva JC; Fernandes SR; Datta A; Castelo Ferreira F; Moura C; Amado S; Alves N; Pascoal-Faria P. "A Multimodal Stimulation Cell Culture Bioreactor for Tissue Engineering: A Numerical Modelling Approach (8 citations)". *Polymers* 12 4 (2020): 940. <http://dx.doi.org/10.3390/polym12040940>.
Published · Open access · 10.3390/polym12040940
- 9 Fernandes SR; Pereira M; Salvador R; Miranda PC; de Carvalho M. "Cervical trans-spinal direct current stimulation: a modelling-experimental approach. (11 citations)". *Journal of NeuroEngineering and Rehabilitation* 16 1 (2019): 123. <https://doi.org/10.1186/s12984-019-0589-6>.
Published · Open access · 10.1186/s12984-019-0589-6
- 10 Fernandes SR; Salvador R; de Carvalho MA; Miranda PC. "Electric Field Distribution during Non-Invasive Electric and Magnetic Stimulation of the Cervical Spinal Cord (3 citations)". *Conf Proc IEEE Eng Med Biol Soc.* 2019 (2019): 5898-5901.
Published
- 11 Pereira M; Fernandes SR; Miranda PC; de Carvalho M. "Neuromodulation of lower limb motor responses with transcutaneous lumbar spinal cord direct current stimulation. (8 citations)". *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology* 129 9 (2018): 1999-2009. <http://europepmc.org/abstract/med/30041145>.
Published · 10.1016/j.clinph.2018.07.002
- 12 Fernandes SR; Salvador R; Wenger C; de Carvalho M; Miranda PC. "Transcutaneous spinal direct current stimulation of the lumbar and sacral spinal cord: a modelling study (23 citations)". *Journal of Neural Engineering* 15 3 (2018): 036008. <https://doi.org/10.1088/1741-2552/aaac38>.
Published · 10.1088/1741-2552/aaac38
- 13 de Carvalho M; Pereira M; Fernandes SR; Miranda PC. "O203 Neuromodulation of lower limb motor circuitry with transcutaneous lumbar spinal cord direct current stimulation". *Clinical Neurophysiology* 128 9 (2017): e243. <http://dx.doi.org/10.1016/j.clinph.2017.07.211>.
10.1016/j.clinph.2017.07.211

- 14 Santos L; Martinho M; Salvador R; Wenger C; Fernandes SR; Ripolles O; Ruffini G; Miranda PC. "Effects of tissue conductivities in tCS of the motor cortex with different electrode configurations". *Brain Stimulation* 10 2 (2017): 438. <http://dx.doi.org/10.1016/j.brs.2017.01.306>.
10.1016/j.brs.2017.01.306
- 15 Fernandes SR; Salvador R; Wenger C; de Carvalho M; Miranda PC. "Influence of electrode configuration in neuromodulation of cervical spinal cord during non-invasive direct current stimulation". *Brain Stimulation* 10 2 (2017): 458. <http://dx.doi.org/10.1016/j.brs.2017.01.345>.
10.1016/j.brs.2017.01.345
- 16 Fernandes SR; Salvador R; Wenger C; de Carvalho M; Miranda PC. "P084 Electric field distribution in the lumbar spinal cord during trans-spinal magnetic stimulation (2 citations)". *Clinical Neurophysiology* 128 3 (2017): e48-e50. <http://dx.doi.org/10.1016/j.clinph.2016.10.209>.
10.1016/j.clinph.2016.10.209
- 17 Miranda PC; Salvador R; Wenger C; Fernandes SR. "Optimizing Electric-Field Delivery for tDCS: Virtual Humans Help to Design Efficient, Noninvasive Brain and Spinal Cord Electrical Stimulation. (6 citations)". *IEEE pulse* 8 4 (2017): 42-45. <http://europepmc.org/abstract/med/28715314>.
Published · 10.1109/mpul.2017.2701259
- 18 Miranda PC; Salvador R; Wenger C; Fernandes SR. "Computational models of non-invasive brain and spinal cord stimulation. (16 citations)". *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference* (2016): <http://europepmc.org/abstract/med/28269725>.
Published · 10.1109/embc.2016.7592207
- 19 Fernandes SR; Salvador R; Wenger C; de Carvalho MA; Miranda PC. "Influence of electrode configuration on the electric field distribution during transcutaneous spinal direct current stimulation of the cervical spine. (7 citations)". *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference* (2016): 3121-3124. <http://europepmc.org/abstract/med/28324978>.
Published · 10.1109/embc.2016.7591390
- 20 Santos L; Martinho M; Salvador R; Wenger C; Fernandes SR; Ripolles O; Ruffini G; Miranda PC. "Evaluation of the electric field in the brain during transcranial direct current stimulation: A sensitivity analysis. (25 citations)". *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference* (2016): 1778-1781. <http://europepmc.org/abstract/med/28268672>.
10.1109/embc.2016.7591062
- 21 Macedo M; Wenger C; Salvador R; Fernandes SR; Miranda PC. "Investigating an alternative ring design of transducer arrays for tumor treating fields (TTFields). (3 citations)". *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference* (2016): 5168-5171. <http://europepmc.org/abstract/med/28269429>.
Published · 10.1109/embc.2016.7591891
- 22 Bastos R; Fernandes SR; Salvador R; Wenger C; de Carvalho MA; Miranda PC. "The effect of inter-electrode distance on the electric field distribution during transcutaneous lumbar spinal cord direct current stimulation. (8 citations)". *Conference proceedings : ... Annual International Conference of the IEEE*

Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference (2016): 1754-1757. <http://europepmc.org/abstract/med/28268666>.

Published · 10.1109/embc.2016.7591056

- 23 Teixeira PS; Fernandes SR; Alves JF; Correia J; Santos FD; Lada EA; Lada C. "Near infrared imaging of NGC 2316 (16 citations)". *Astronomy & Astrophysics* 413 1 (2003): L1-L4. <http://dx.doi.org/10.1051/0004-6361:20034621>.

Published · 10.1051/0004-6361:20034621

Thesis / Dissertation

- 1 Fernandes, Sofia Rita. "Transcutaneous Spinal Direct Current Stimulation : Modelling the spinal electric field distribution and clinical relevance". PhD, 2019. <http://hdl.handle.net/10451/55166>.
- 2 "Frequência de Discos Circum-Estelares no Enxame Aberto NGC2547: Estudo do Excesso de Emissão no Infravermelho Próximo". Master, Universidade de Lisboa Faculdade de Ciências, 2003.

Activities

Oral presentation

| | Presentation title | Event name Host (Event location) |
|------------|--|--|
| 2022/09/08 | "Non-invasive Brain and Spinal Stimulation (NIBSS) Strategies for Diagnosis and Treatment of Amyotrophic Lateral Sclerosis (ALS)" | 32nd International Congress of ClinicalNeurophysiology, ICCN 2022, Geneva, Switzerland International Federation of Clinical Neurophysiology (Geneva, Switzerland) |
| 2022/08/18 | "Comparing tDCS paradigms for modulation of motor-related connectivity: investigating the relation between the electric field and clinical outcomes" | Brain and Human Body Modeling Conference 2022 (hybrid conference) A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown MA, USA. (Massachusetts, United States) |
| 2021/09/02 | Realistic Human Modelling for Biomedical Applications | Session 1: "Digital Twins for Life Sciences. International Manufacturing Forum Series (online) CDRSP – Center for Rapid and Sustainable Product Development, Instituto Politécnico de Leiria, Marinha Grande, Portugal (Marinha Grande, Portugal) |
| 2021/08/19 | Accurate realistic model of the spinal cord and surrounding tissues. | Brain & Human Body Modelling (BHB) Conference (online), August 19-20, 2021 A.A. Martinos Center for Biomedical |

| | | |
|------------|---|--|
| 2021/08/19 | Interplay between Electrical Conductivity of Tissues and Position of Electrodes in Transcutaneous Spinal Direct Current Stimulation | Brain & Human Body Modelling (BHB) Conference (online), August 19-20, 2021 A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown MA, USA. (Massachusetts) |
| 2021/05/05 | Estimulação Eletromagnética do Sistema Nervoso: a teoria ao serviço da clínica (online, PT). | Dia aberto da FCUL 2021 Faculdade de Ciências da Universidade de Lisboa, FCUL (Lisboa, Portugal) |
| 2020/09/23 | Comparison of Electromagnetic Stimulation Fields Generated By Different Experimental Setups: - a Biophysical Analysis - | ICNAAM 2020 - 18Th International Conference of Numerical Analysis and Applied Mathematics University of Athens, Greece; European Society of Computational Methods in Sciences and Engineering (ESCMCE) (Rhodes, Greece) |
| 2020/09/11 | A combined modelling-experimental approach in Non-Invasive Spinal Cord Stimulation | 7th International Conference on Non-Invasive Brain Stimulation (NIBS) Deutsche Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (Baden-Baden, Germany) |
| 2019/11/14 | Non-Invasive Neuromodulation of the Cervical Spinal Cord: combining modelling and experimental studies | 4th PhD Students Meeting of the Mind-Brain College of the Universidade de Lisboa Universidade de Lisboa Faculdade de Medicina (Lisboa, Portugal) |
| 2019/09 | Optimizing Electromagnetic Stimulation of the Brain and Spinal Cord: a combined modelling and experimental approach | 11th OSET Congress of the International Organization of Societies for Electrophysiological Technology International Organization of Societies for Electrophysiological Technology (Porto, Portugal) |
| 2019/08 | Non-invasive Spinal Cord Stimulation: Relevance of Modelling Studies in Clinical Protocol Design | Medicon 2019 - XV Mediterranean Conference on Medical and Biological Engineering and Computing Universidade de Coimbra (Lisboa, Portugal) |
| 2018/07 | Otimização do Campo Elétrico em Estimulação Não-Invasiva do Cérebro e da Medula Espinhal | Ciência '18 - Encontro com a Ciência e Tecnologia em Portugal Ministério da Ciência e Ensino Superior (Lisboa, Portugal) |

| | | |
|------|---|---|
| 2016 | Influence of electrode configuration on the electric field distribution during transcutaneous spinal direct current stimulation of the cervical spine | IEEE Eng , Med Biol Soc. 2016 IEEE (Orlando FL, United States) |
| 2015 | Transcutaneous Spinal Direct Current Stimulation: Modelling the Electric Field Distribution in the Cervical Spinal Cord. | International Congress on Neurotechnology, Electronics and Informatics – Neurotechnix 2015 (Lisboa) |

Supervision

| | Thesis Title Role | Degree Subject (Type) Institution / Organization |
|----------------------|---|--|
| 2023/03/01 - Current | MSc thesis: "Motor Dynamics of the Human Cortex: implementation and validation of a HNN-based neural circuit model to predict movement-related cortical potentials" Supervisor | Physics Engineering (Master) Politecnico di Milano, Italy |
| 2023/02/01 - Current | MSc thesis: "Combined Brain and Spinal Stimulation for modulation of motor-related EEG responses" Supervisor | Ciências da Engenharia - Engenharia Biomédica e Biofísica (Master) Universidade de Lisboa Faculdade de Ciências, Portugal |
| 2022/09/01 - Current | PhD Thesis "Numerical Modelling of Mechanical and Electromagnetic Stimulation in Bioreactors and Scaffolds for Tissue Engineering" Supervisor | Ciências da Engenharia - Engenharia Biomédica e Biofísica (PhD) Universidade de Lisboa Faculdade de Ciências, Portugal |
| 2022/07/18 - Current | PhD Thesis: "Spasticity in Amyotrophic Lateral Sclerosis: predicting and evaluating treatment impact with non-invasive electrical stimulation?" Co-supervisor | Neurociências (PhD) Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2022 - Current | MSc thesis: "Treino proprioceitivo como estratégia de intervenção para melhoria do equilíbrio em indivíduos pós Acidente Vascular Cerebral (AVC): Revisão sistemática" Co-supervisor | Fisioterapia (Master) Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2021/12 - Current | MSc thesis: "Modelling Transitions Between Brain States: from rest to motor execution" Co-supervisor of Lima, David | Physics Engineering (Master) Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal |
| 2021/09 - Current | MSc thesis: "Targeted tDCS in Sensorimotor Networks: Modelling the Electric Field Distribution based on FC | Biomedical Engineering (Master) Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, |

Analysis"

Co-supervisor of Silva, Vasco

Portugal

2021/09 - 2022/07

MSc thesis: "Importância terapêutica do exercício na neuroplasticidade em adultos com patologia neurológica: revisão sistemática"

Co-supervisor of Cardoso, Sara

Fisioterapia (Master)

Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal

2020/04/30 -
2020/11/19

MSc thesis: "Efeitos do Uso de Auxiliares de Marcha em Pessoas com Sequelas de Acidente Vascular Cerebral - Fase Crónica: Revisão Sistemática."

Co-supervisor

Fisioterapia (Master)

Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal

Event organisation

Event name

Type of event (Role)

Institution / Organization

2023/07/24 -
2023/07/27

Organization of Symposium entitled "Computational analysis of non-invasive neuromodulation constructs: Brain and Spine", to be held in the 45th Annual International Conference of IEEE Engineering in Medicine and Biology (EMBC) 2023, Sydney, Australia (2023/07 - 2023/07)

Symposium (Other)

IEEE, United States

2023/03/20 -
2023/03/20

Organization of symposium: "Non-invasive Brain and Spinal Stimulation (NIBSS) in the Diagnosis and Treatment of Amyotrophic Lateral Sclerosis (ALS): an update" in the 5th International Brain Stimulation Conference 2023, held in Lisbon, Portugal (2023/03/20 - 2023/03/22)

Symposium (Other)

Elsevier Inc, United States

2022/09/08 -
2022/09/08

Organization of symposium: "Non-invasive Brain and Spinal Stimulation (NIBSS) Strategies for Diagnosis and Treatment of Amyotrophic Lateral Sclerosis (ALS)", in the 32nd International Congress of Clinical Neurophysiology, Geneva, Switzerland (2022/09/04 - 2022/09/08)

Symposium (Other)

International Federation of Clinical Neurophysiology, United States

2022/08/18 -
2022/08/19

Chair in Session II: "Featured Talks: EEG/TES/DBS" in Brain & Human Body Modeling (BHB) Conference (hybrid format), A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown MA

A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, United States

(2022/08/18 - 2022/08/19)

Conference (Other)

2021/08/19 - 2021/08/19

Co-chair in Session II. Modeling Neuroimaging and Electrical Stimulation (Very Low Frequency Band), and Interplay Between Them (Co-Chair) in in Brain & Human Body Modelling (BHBIM) Conference (online), August 19-20, 2021, A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown MA, USA.
(2021/08/19 - 2021/08/20)

Conference (Other)

A.A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, United States

2020/09/10 - 2020/09/14

Organization of Symposia: Computer Modelling in Non-Invasive Spinal Cord Stimulation, held at the 7th International Conference on Non-Invasive Brain Stimulation (NIBS), 24-26 March 2020 · Baden-Baden/Germany
(2020/09/11 - 2020/09/11)

Symposium (Other)

Deutsche Gesellschaft für Klinische Neurophysiologie und funktionelle Bildgebung, Germany

2018/11/14 - 2018/11/15

4th PhD Students Meeting of the Mind-Brain College of the Universidade de Lisboa, Lisboa
Member of the organizing committee
(2018/11/14 - 2018/11/15)

Conference (Member of the Organising Committee)

Universidade de Lisboa Faculdade de Medicina, Portugal

2017/10/19 - 2017/10/20

3rd PhD Students Meeting of the Mind Brain College of the University of Lisbon
Member of the organizing committee
Poster presentation entitled "Non-Invasive Direct Current Stimulation of the Lumbar Spinal Cord: combining observational studies with computational models" (2017/10/19 - 2017/10/20)

Conference (Member of the Organising Committee)

Universidade de Lisboa Faculdade de Medicina, Portugal

2017/05/29 - 2017/05/31

6th International Conference on PET-MRI and SPECT-MRI (2017/05/29 - 2017/05/31)

Conference (Member of the Organising Committee)

Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal

2017/05/27 - 2017/05/27

PSMR 2017 Sattelite School (PET-MRI School) - Presentations and Hands-on on MRI and PET data analysis
(2017/05/27 - 2017/05/27)

Workshop (Member of the Organising Committee)

Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal

| | | |
|-------------------------|---|---|
| 2016/11/28 - 2016/11/29 | <p>2nd PhD Students Meeting of the Mind Brain College of the University of Lisbon, Lisbon</p> <p>Member of Organizing Committee Poster presentation entitled: "Electric field distribution in the lumbar spinal cord during trans-spinal magnetic stimulation." (2016/11/28 - 2016/11/28)</p> <p>Conference (Member of the Organising Committee)</p> | <p>Universidade de Lisboa Faculdade de Medicina, Portugal</p> |
| 2016/06/02 - 2016/06/03 | <p>Brain Imaging: an introductory workshop on research and clinical applications</p> <p>Member of the organizing committee. Principles and applications of imaging techniques in neurosciences: immunofluorescence, calcium imaging, fMRI acquisition and analysis, MRI diffusion-weighted imaging, nuclear medicine techniques in brain imaging, electroencephalography as image: principles and applications. Hands-on on FSL and Travis software tools on MRI diffusion-weighted imaging analysis.</p> <p>(2016/06/02 - 2016/06/03)</p> <p>Workshop (Co-organisor)</p> | <p>Universidade de Lisboa Faculdade de Medicina, Portugal</p> <p>Universidade de Lisboa Faculdade de Ciências, Portugal</p> |

Event participation

| | Activity description Type of event | Event name Institution / Organization |
|-------------------------|---|---|
| 2023/02/25 - 2023/02/25 | <p>(PT) "Modelação Computacional de Estimulação Cerebral Não Invasiva com SIMNIBS: uma abordagem "hands-on".</p> <p>Workshop</p> | <p>ENEEB - XVIII Encontro Nacional de Estudantes de Engenharia Biomédica</p> <p>Universidade de Aveiro, Portugal</p> |
| 2023/02/19 - 2023/02/22 | <p>Poster entitled "Model-guided Transcutaneous Direct Current Stimulation of the Brain and Spinal Cord to repair ALS-induced motor dysfunctions" (On-demand symposium)</p> <p>Conference</p> | <p>5th International Brain Stimulation Conference 2023 Lisbon, Portugal</p> <p>Elsevier Inc, United States</p> |
| 2023/02/19 - 2023/02/22 | <p>Poster entitled "Effect of tDCS montages in EEG-based functional connectivity of the sensorimotor network" (co-author)</p> <p>Conference</p> | <p>5th International Brain Stimulation Conference 2023 Lisbon, Portugal</p> <p>Elsevier Inc, United States</p> |
| 2022/09/04 - 2022/09/08 | <p>Poster entitled "TH 183. Relevance of realistic human models to guide non invasive spinal stimulation: a review of current findings" (co-author)</p> | <p>32nd International Congress of ClinicalNeurophysiology, ICCN 2022, Geneva, Switzerland</p> <p>International Federation of Clinical</p> |

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|-------------------------|---|---|
| 2022/07/11 - 2022/07/15 | Poster with flash presentation entitled "How the Number and Distance of Electrodes Change the Induced Electric Field in the Cortex during Multichannel tDCS" | 44th International Engineering in Medicine and Biology Conference EMBC 2022, Glasgow, United Kingdom IEEE, United States |
| | Conference | |
| 2021/06/28 - 2021/06/30 | Poster presentation entitled: "Re-connecting the Motor Brain in ALS with Electrical Stimulation" | Ciência 2021 – Science and Technology in Portugal Summit (online) Fundação para a Ciência e a Tecnologia, Portugal |
| 2021/06/16 - 2021/06/17 | Poster presentation entitled "Predicting the Effects of Transcranial Direct Current Stimulation with realistic head models based on MRI/DTI data" | 1st ISMRM Iberian Chapter Annual Meeting (online) Instituto Superior Técnico Departamento de Física, Portugal |
| 2019/11/12 - 2019/11/13 | 5th Meeting of the Mind-Brain College of the University of Lisbon, Lisboa (Portugal) Co-chair in oral communications session. | 5th Meeting of the Mind-Brain College of the University of Lisbon Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2019/07/08 - 2019/07/10 | Poster presentation entitled "Promoting axonal regeneration using non-invasive direct current stimulation". | Ciência'19 - Encontro com a Ciência e Tecnologia em Portugal Governo da República Portuguesa Ministério da Ciência Tecnologia e Ensino Superior, Portugal |
| 2019/06 - 2019/06 | Participant and co-author in poster presentation entitled "Neuromodulation of Lower Limb Motor Pathways with Trans-spinal Direct Current Stimulation: an overview of current findings". | 4th IC CIIEM: Health, Well-being and Ageing in the XXI century Escola Superior de Saúde Egas Moniz, Portugal |
| 2019/02/13 - 2019/02/15 | Workshop on statistics - from basic to advanced level Descriptive statistics, correlation methods, application of statistical test, analysis of variance and data modelling in basic and clinical sciences - fundaments and applications using the SPSS and R softwares. | Workshop on statistics - from basic to advanced level Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2018/07/02 - 2018/07/04 | Poster presentation entitled "Transcutaneous Direct Current Stimulation of the Cervical Spinal Cord: | Ciência '18 - Encontro com a Ciência e Tecnologia em Portugal |

combining modelling and experimental studies."

Conference

Governo da República Portuguesa
Ministério da Ciência Tecnologia e
Ensino Superior, Portugal

2018/06/21 -
2018/06/23

Poster presentation entitled
"Promoting axonal regeneration in
motor neuron diseases using
noninvasive electrical stimulation"

Workshop

Workshop on Integrative approaches
in Neurodegeneration

Universidade de Lisboa Faculdade de
Ciências, Portugal

2017/05/24 -
2017/05/26

Poster presentation entitled
"Neuromodulation of Lower Limb Motor
Circuitry with Transcutaneous Lumbar
Spinal Cord Direct Current Stimulation."

Conference

XI PhD CAML Students Meeting FMUL-
iMM

Universidade de Lisboa Faculdade de
Medicina, Portugal

2017/03/05 -
2017/03/08

Poster presentation entitled "Influence
of electrode configuration in
neuromodulation of cervical spinal cord
during non-invasive direct current
stimulation."

Conference

2nd International Brain Stimulation
Conference

2016/09/07 -
2016/09/10

Poster presentation entitled "Electric
Field Distribution in the Lumbar Spinal
Cord during Trans-Spinal Magnetic
Stimulation."

Conference

6th International Conference on
Transcranial Brain Stimulation 2016

Georg-August-Universität Göttingen
Department of Cellular Neurobiology,
Germany

2016/03/30 -
2016/04/01

Poster presentation entitled
"Transcutaneous spinal direct current
stimulation of the cervical spine region."

Conference

X PhD CAML Students Meeting FMUL-
iMM

Universidade de Lisboa Faculdade de
Medicina, Portugal

2015/12/02 - 2015/12/02

Poster presentation: Modelling
Biophysical Effects of Electromagnetic
Fields in Living Tissue, P.C.
Miranda, R. Salvador, C. Wenger, S.R.
Fernandes.

Conference

1st PhD Students Meeting of the Mind
Brain College of the University of
Lisbon

Universidade de Lisboa Faculdade de
Medicina, Portugal

2015/08/25 -
2015/08/29

Poster presentation entitled
"Transcutaneous Spinal Cord
Stimulation: Modeling the Electric Field
Distribution using the Finite Element
Method."

Conference

37th Annual International Conference
of the IEEE Engineering in Medicine
and Biology Society, Milan, Italy

IEEE Engineering in Medicine and
Biology Society, United States

2015/03/26 -
2015/03/27

Poster presentation entitled
"Transcutaneous spinal direct current
stimulation: Modelling the electric field
distribution in the spine and assessing
the clinical relevance of tsDCS."

IX PhD CAML Students Meeting -
FMUL-iMM

Universidade de Lisboa Faculdade de
Medicina, Portugal

Conference

Jury of academic degree

| | Theme Role | Candidate name (Type of degree) Institution / Organization |
|------------|--|--|
| 2023/02/06 | Master thesis: "Development of an Electrical Impedance Tomography Algorithm to Estimate the Scalp and Skull Conductivity", member of jury of the defense (Thesis) Main arguer | Catarina Camarate (Master) Universidade de Lisboa Faculdade de Ciências, Portugal |
| 2022/11/25 | Master Thesis: PosturAll: "A Posture Assessment Software for Children", president of jury of defense President of the jury | Ana Beatriz Neves (Master) Universidade de Lisboa Faculdade de Ciências, Portugal |
| 2022/09 | Master thesis: "Cell-to-cell Connectivity Simulation as a Tool to predict the effect of Non-Invasive Electric Brain Stimulation" - member of defense jury, reviewer (Thesis) Arguer | Mathis Stumpf (Master) Technische Universität Darmstadt, Germany |

Committee member

| | Activity description Role | Institution / Organization |
|-------------------------|--|--|
| 2017/05/27 - 2017/05/27 | PET-MRI School (PSMR 2017 Satellite School), Lisbon (Portugal) Member of Organizing Committee Member | Universidade de Lisboa Instituto de Biofísica e Engenharia Biomédica, Portugal |

Conference scientific committee

| | Conference title | Conference host |
|-------------------------|---|---|
| 2022/08/18 - 2022/08/19 | Brain and Human Body Modeling Conference 2022 | The Martins Center for Biomedical Imaging at Massachusetts General Hospital (MGH), Boston, US |
| 2017/05/29 - 2017/05/31 | PSMR 2017 - 6th Conference on PET-MRI and SPECT-MRI | Lisbon (Portugal) |

Consulting

| | Activity description | Institution / Organization |
|----------------------|---|----------------------------|
| 2023/02/01 - Current | MSc project: "The effect of transcranial alternate current stimulation (tACS) on slow brain rhythms." | FHWien der WKW, Austria |

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|-------------------------|--|---|
| 2021/12/01 - 2022/09/13 | MSc project: "Cell-to-cell Connectivity Simulation as a Tool to predict the effect of Non-Invasive Electric Brain Stimulation" | Technische Universität Darmstadt, Germany |
|-------------------------|--|---|

Course / Discipline taught

| | Academic session | Degree Subject (Type) | Institution / Organization |
|-------------------------|--|--|--|
| 2023/03/02 - 2023/03/02 | PhD/MSc programme in Neurosciences - Clinical Neurophysiology: Transcranial Magnetic Stimulation | Neurociências (Doutoramento) | Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2022/09 - 2023/02/28 | Master programme in Biophysics and Biomedical Engineering - Bioelectricity and Electrophysiology | Ciências da Engenharia - Engenharia Biomédica e Biofísica (Mestrado) | Universidade de Lisboa Faculdade de Ciências, Portugal |
| 2022/11/22 - 2022/11/22 | PhD/MSc programme: Cognitive Sciences - Technologies for Integrative Analysis of the Nervous System: Transcranial Neural Stimulation | Ciência Cognitiva (Doutoramento) | Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2022/02/14 - 2022/08/31 | Master in Physiotherapy - Human Movement and Motor Control | Fisioterapia (Mestrado integrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2022/02/14 - 2022/08/31 | Master programme in Physiotherapy - Physiotherapy in Adult Neurologic Conditions | Fisioterapia (Mestrado integrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2022/02/22 - 2022/02/22 | Transcranial Magnetic Stimulation, in Module - Clinical Neurophysiology | Neurociências (Doutoramento) | Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2021/10/21 - 2021/10/21 | Transcranial Neural Stimulation, in Module IIa - Technologies for Integrative Analysis of the Nervous System | Ciências Biomédicas (Doutoramento) | Universidade de Lisboa Faculdade de Medicina, Portugal |
| 2021/04/01 - 2021/08/31 | Master programme in Physiotherapy - Human movement and Motor control | Physiotherapy (Mestrado integrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2021/04/01 - 2021/08/31 | Master Programme in Physiotherapy - Physiotherapy in Adult Neurologic Conditions | Fisioterapia (Mestrado integrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |

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|----------------------------|--|---|--|
| 2020/04/01 - 2020/08/31 | Master programme in Physiotherapy - Physiotherapy in Adult Neurologic Conditions | Fisioterapia (Mestrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2020/04/01 - 2020/08/31 | Master programme in Physiotherapy - Human Movement and Motor Control | Fisioterapia (Mestrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2019/10/01 - 2020/01/03 | BSc in Medical Imaging and Radiotherapy - General Physics | Imagen Médica e Radioterapia (Licenciatura) | Escola Superior de Saúde da Cruz Vermelha Portuguesa, Portugal |
| 2019/10/01 - 2020/01/03 | BSC in Cardiopneumology - Biosignal Processing | Cardiopneumología (Licenciatura) | Escola Superior de Saúde da Cruz Vermelha Portuguesa, Portugal |
| 2019/04/01 - 2019/08/31 | Master programme in Physiotherapy - Human Movement and Motor Control | Fisioterapia (Mestrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |
| 2019/04/01 - 2019/08/31 | Master programme in Physiotherapy - Physiotherapy in Adult Neurologic Conditions | Fisioterapia (Mestrado) | Instituto Politécnico de Lisboa Escola Superior de Tecnologia da Saúde de Lisboa, Portugal |

Other jury / evaluation

| | Activity description | Institution / Organization |
|----------------------|--|-----------------------------------|
| 2022/12 - Current | Guest Editor of Special Issue of Frontiers in Human Neuroscience entitled "Emerging Talents in Human Neuroscience: Neuromodulation 2023" | Frontiers Media SA, Switzerland |
| 2022/08/01 - Current | Guest Editor, Physics and Medicine in Biology Special Issue entitled "Electromagnetic Modeling for Brain Stimulation" | IOP Publishing USA, United States |
| 2022 - Current | Reviewer - Frontiers in Human Neuroscience | Frontiers Media SA, Switzerland |
| 2022 - Current | Reviewer - Journal of NeuroEngineering and Rehabilitation | Springer Nature, Luxembourg |
| 2022 - Current | Reviewer - Journal of Neurophysiology and Neurological Disorders | |

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|-------------------|---|--------------------------|
| 2022 - Current | Reviewer - Journal of Neurologic Physical Therapy | Wolters Kluwer, Italy |
| 2022 - Current | Reviewer - Neurology Hidawi | |
| 2021/02 - Current | Reviewer - Neurophysiologie Clinique | Elsevier BV, Netherlands |
| 2020/07 - Current | Reviewer - Medical Engineering and Physics - Elsevier | Elsevier BV, Netherlands |