



RICARDO FILIPE ALVES MARTINS

Ricardo Martins is a postdoctoral researcher at the University of Coimbra (UC). He holds a PhD in Electrical and Computer Engineering, specializing in automation and robotics, and an MSc in Biomedical Engineering.

During his PhD, his research focused on artificial perception in robotics. Currently, as a postdoctoral researcher, he works in the field of neuroimaging in cognitive neuroscience at UC, within the Coimbra Institute for Biomedical Imaging and Translational Research (CIBIT-UC) and the Institute of Nuclear Sciences Applied to Health (ICNAS-UC).

His core training and research interests include probability and statistics, multivariate signal and image processing, computational modeling, and machine intelligence, which he applies to the investigation of brain function using PET, fMRI, and MRI.

Identification

Personal identification

Full name
RICARDO FILIPE ALVES MARTINS

Citation names

Martins, Ricardo

Author identifiers

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ricardo.martins@uc.pt (Professional)

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ICNAS - Instituto de Ciências Nucleares Aplicadas à Saúde, Azinhaga de Santa Comba, 3000-548 Coimbra, Coimbra, Portugal (Professional)

Websites

<https://ricardomar.github.io/> (Professional)

Knowledge fields

Engineering and Technology - Medical Engineering - Medical Engineering
 Medical and Health Sciences - Clinical Medicine - Radiology, Nuclear Medicine and Medical Imaging
 Medical and Health Sciences - Basic Medicine - Neurosciences
 Engineering and Technology - Electrotechnical Engineering, Electronics and Informatics - Robotics and Automatic Control

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
English	Advanced (C1)	Advanced (C1)	Advanced (C1)	Advanced (C1)	Advanced (C1)
Portuguese (Mother tongue)					

Education

	Degree	Classification
2019/10/07 - 2019/10/09 Concluded	KCL PET Methodology Course (Outros) King's College London, United Kingdom Institute of Psychiatry Psychology and Neuroscience Department of Basic and Clinical Neuroscience, United Kingdom	advanced training
2019/07/11 - 2019/07/18 Concluded	IST Lisbon Machine Learning School (Outros) Universidade de Lisboa Instituto Superior Técnico, Portugal Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa, Portugal	advanced training
2018/09/10 - 2018/09/14 Concluded	ETHZ/UZH Computational Psychiatry Course 2018 (Outros) Departement Informationstechnologie und Elektrotechnik, Switzerland Universität Zürich Institut für Informatik, Switzerland	advanced training
2009/10/01 - 2017/02/27 Concluded	Engenharia Eletrotécnica e de Computadores (Doutoramento) Major in Automation and Robotics Universidade de Coimbra, Portugal <i>"Development of techniques for haptic object exploration: a contribution for autonomous robotic hands" (THESIS/DISSERTATION)</i>	Approved with praise and distinction

2016/06/06 - 2016/06/08 Concluded	FieldTrip: a MATLAB toolbox for MEG - EEG analysis (Outros)	advanced training
	Radboud Universiteit Donders Institute for Brain Cognition and Behaviour, Netherlands	
2016/01/01 - 2016/03/31 Concluded	Biostatistics and design of clinical trials (Outros)	advanced training
	Universidade de Coimbra, Portugal	
2010/10/01 - 2011/07/31 Concluded	Advanced studies in Electrical and Computer Engineering (Outros)	Excellent (18 out of 20)
	Universidade de Coimbra, Portugal	
2010/09/27 - 2010/10/01 Concluded	Summer School on Robotic Grasping (Outros)	advanced training
	Universitat Jaume I Escola Superior de Tecnologia i Ciències Experimentals, Spain	
2002/10/01 - 2008/09/18 Concluded	Engenharia Biomédica (Mestrado integrado) Major in Instrumentação Biomédica	Very good with distinction (18 out of 20)
	Universidade de Coimbra, Portugal <i>"BW-Eye: Ophthalmologic decision support system based on clinical workflow and data mining techniques"</i> (THESIS/DISSERTATION)	

Affiliation

Science

	Category Host institution/organization	Employer
2019/10 - Current	Contracted Researcher (Research) Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal	CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal
2017/05 - 2019/09	Postdoc (Research)	Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal

2014/01 - 2017/04	Researcher (Research)	Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal
2008/10 - 2017/03	Researcher (Research)	Universidade de Coimbra Instituto de Sistemas e Robótica, Portugal

Projects

Grant

	Designation	Funders
2024/01 - 2027/12	<p>Longitudinal study of biomarkers of visual cortex plasticity in stroke: fMRI population receptive fields mapping and [11C] UCB-J PET synaptic density assessment 2023.00376.BDANA</p> <p>Supervisor Universidade de Coimbra, Portugal Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p> <p>Ongoing</p>
2019/09 - 2025/09	<p>CEEC-Institucional: Institutional Call to Scientific Employment Stimulus - 1st Edition CEECINST/00041/2018/CP1568/CT0005 10.54499/CEECINST/00041/2018/CP1568/CT0005</p> <p>Researcher Universidade de Coimbra, Portugal CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p> <p>Ongoing</p>
2019 - 2025	<p>AIMS-2-TRIALS: Autism Innovative Medicine Studies - 2 - Trials 777394 10.3030/777394</p> <p>Researcher CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal</p>	<p>EU Framework Programme for Research and Innovation Societal Challenges, Belgium</p> <p>Ongoing</p>
2021 - 2024	<p>NeuroHyst: Neural mechanisms underlying positive and negative perceptual hysteresis PSI-GER/1326/2020 PTDC/PSI-GER/1326/2020 PT PTDC/PSI-GER/1326/2020</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p> <p>Concluded</p>

Researcher

CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal
Centro Hospitalar e Universitário de Coimbra EPE, Portugal

2020 - 2022	<p>NANOSTEM: Developing new NANOMaterials for neural STEM cells drug delivery - Marie Skłodowska-Curie Innovative Training Network (ITN) 10.3030/764958 H2020-MSCA-ITN-2017764958</p> <p>Technical development CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal</p>	<p>EU Framework Programme for Research and Innovation Excellent Science, Belgium Concluded</p>
2018 - 2022	<p>BioMuScl: Novel multimodal imaging biomarkers of neuronal connectivity in Multiple Sclerosis MEC-NEU/31973/2017 PTDC/MEC-NEU/31973/2017</p> <p>Researcher Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal Concluded</p>
2017 - 2022	<p>STIPED: Transcranial brain stimulation as innovative therapy for chronic pediatric neuropsychiatric disorder 10.3030/731827 731827</p> <p>Technical development CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal</p>	<p>EU Framework Programme for Research and Innovation Health Demographic Change and Wellbeing, Belgium Concluded</p>
2018 - 2021	<p>BrEin-MS: Brain Elasticity in Multiple Sclerosis and implications in mechanomodulation of oligodendrocytes: a cellular and clinical approach MED-NEU/29516/2017 PTDC/MED-NEU/29516/2017</p> <p>Researcher Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal Concluded</p>
2018 - 2021	<p>BAD-BiomED: Affective disorders- biomarkers and early detection MEC-PSQ/30943/2017 PTDC/MEC-PSQ/30943/2017</p> <p>Researcher Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal Concluded</p>

CNC.IBILI, Portugal

2017 - 2020	<p>MEDPERSYST: Synaptic networks and Personalized Medicine Approaches to Understand Neurobehavioural Diseases Across the Lifespan</p> <p>PAC/0010/2015 SAICTPAC/0010/2015 PAC/0010/2015</p> <p>Post-doc Fellow</p> <p>Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal CNC.IBILI, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p> <p>Concluded</p>
2017 - 2019	<p>The role of motion adaptation in bottom-up mechanisms of perceptual decision-making</p> <p>FB2016 PT/FB/BL-2016-207</p> <p>Researcher</p> <p>Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal</p>	<p>Fundação Bial, Portugal</p> <p>Concluded</p>
2016 - 2017	<p>Multimodal mapping of visual motion perceptual decision: Dissecting the role of different motion integration areas in visual surface reconstruction</p> <p>FB-2014 PT/FB/BL-2014-373</p> <p>Researcher</p> <p>Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal CNC.IBILI, Portugal</p>	<p>Fundação Bial, Portugal</p> <p>Concluded</p>
2015 - 2017	<p>Multidisciplinary work in the field of functional magnetic resonance imaging and positron emission tomography techniques.</p> <p>UID/NEU/04539/2013 NEU/04539/2013</p> <p>Researcher</p> <p>Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p> <p>Concluded</p>
2014 - 2015	<p>From molecules to man: novel diagnostic imaging tools in neurological and psychiatric disorders</p> <p>CENTRO-07-ST24-FEDER-02005</p> <p>Researcher</p> <p>Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p> <p>Concluded</p>

2010 - 2013	<p>Development of techniques for haptic object exploration: a contribution for autonomous robotic hands</p> <p>BD/65990/2009 SFRH/BD/65990/2009</p> <p>PhD Student Fellow</p> <p>Universidade de Coimbra Instituto de Sistemas e Robótica, Portugal CNC.IBILI, Portugal</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal Universidade de Coimbra, Portugal Concluded</p>
2009 - 2013	<p>HANDLE: Developmental pathway towards autonomy and dexterity in robot in-hand manipulation</p> <p>231640 CORDIS 231640</p> <p>PhD Student Fellow</p> <p>Universidade de Coimbra Instituto de Sistemas e Robótica, Portugal</p>	<p>European Commission Seventh Framework Programme for Research and Technological Development Information and Communication Technologies, Belgium Concluded</p>
2008 - 2009	<p>PROMETHEUS: Prediction and interpretation of human behaviour based on probabilistic structures and heterogeneous sensors</p> <p>214901 CORDIS 214901 CORDIS-214901</p> <p>Research Fellow</p> <p>Universidade de Coimbra, Portugal Universidade de Coimbra Instituto de Sistemas e Robótica, Portugal</p>	<p>European Commission Seventh Framework Programme for Research and Technological Development Information and Communication Technologies, Belgium Concluded</p>
2007 - 2008	<p>EPILEPSIAE: Evolving Platform for Improving the Living Expectations of Patients Suffering from IctAI Events</p> <p>211713 CORDIS 211713</p> <p>Master Student Fellow</p> <p>Universidade de Coimbra Centro de Informatica e Sistemas, Portugal Universidade de Coimbra, Portugal Centro Hospitalar e Universitário de Coimbra EPE, Portugal</p>	<p>European Commission Seventh Framework Programme for Research and Technological Development Information and Communication Technologies, Belgium Concluded</p>

Outputs

Publications

- | | | |
|--------------|---|---|
| Book chapter | 1 | <p>Pereira, H. Catarina; Sousa, Daniela; Simões, Marco; Martins, Ricardo; Amaral, Carlos; Lopes, Vânia; Crisóstomo, Joana; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Effects of anodal multichannel transcranial direct current stimulation (tDCS) on social-cognitive performance in healthy subjects: A randomized sham-controlled crossover pilot study". In <i>Non-invasive Brain Stimulation (NIBS) in Neurodevelopmental Disorders</i>, 259-286. Elsevier, 2021.</p> <p>Published · 10.1016/bs.pbr.2021.04.004</p> |
| | 2 | <p>Faria, Diego R.; Martins, Ricardo; Lobo, Jorge; Dias, Jorge. "Manipulative Tasks Identification by Learning and Generalizing Hand Motions". In <i>IFIP Advances in Information and Communication Technology</i>, 173-180. Springer Berlin Heidelberg, 2011.</p> <p>Published · 10.1007/978-3-642-19170-1_19</p> |
| | 3 | <p>Faria, Diego R.; Martins, Ricardo; Dias, Jorge. "Grasp Exploration for 3D Object Shape Representation Using Probabilistic Map". In <i>IFIP Advances in Information and Communication Technology</i>, 215-222. Springer Berlin Heidelberg, 2010.</p> <p>Published · 10.1007/978-3-642-11628-5_23</p> |
| | 4 | <p>Dourado, António; Martins, Ricardo; Duarte, João; Direito, Bruno. "Towards Personalized Neural Networks for Epileptic Seizure Prediction". In <i>Artificial Neural Networks - ICANN 2008</i>, 479-487. Springer Berlin Heidelberg, 2008.</p> <p>Published · 10.1007/978-3-540-87559-8_50</p> |
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- | | | |
|------------------|---|--|
| Conference paper | 1 | <p>Lapo Pais, Marta; Jorge, Lília; Martins, Ricardo; Canário, Nádia; Xavier, Carolina; Abrunhosa, Antero; Santana, Isabel; Bernardes, Rui; Castelo-Branco, Miguel. "Texture Quantification Parameters for Alzheimer's disease diagnosis measured by 11C- (R)- PK11195 PET images". Paper presented in <i>European Journal of Nuclear Medicine and Molecular Imaging - EANM2021 - Annual Congress of the European Association of Nuclear Medicine, Online</i>, 2021.</p> <p>Published</p> |
| | 2 | <p>Martins, Ricardo; Filipe Ferreira, Joao; Dias, Jorge. "Touch attention Bayesian models for robotic active haptic exploration of heterogeneous surfaces". Paper presented in <i>IROS 2014 - 2014 IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei</i>, 2014.</p> <p>Published · 10.1109/iros.2014.6942711</p> |
| | 3 | <p>Martins, Ricardo; Ferreira, João Filipe; Dias, Jorge. "Touch attention Bayesian models for robotic active haptic exploration". Paper presented in <i>REACTS 2013 - Workshop on Recognition and Action for Scene Understanding - International Conference of Computer Analysis of Images and Patterns, York</i>, 2013.</p> <p>Published</p> |
| | 4 | <p>Martins, Ricardo; Faria, Diego R.; Dias, Jorge. "Representation framework of perceived object softness characteristics for active robotic hand exploration". Paper presented in <i>HRI 2012 - ACM/IEEE International Conference on Human-Robot Interaction, Boston</i>, 2012.</p> <p>Published · 10.5281/zenodo.4553427</p> |
| | 5 | <p>Faria, Diego R; Martins, Ricardo; Lobo, Jorge; Dias, Jorge. "Probabilistic representation of 3D object shape by in-hand exploration". Paper presented in <i>IROS 2010 - 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei</i>, 2010.</p> <p>Published · 10.1109/iros.2010.5649286</p> |

- 6 Martins, Ricardo; Faria, Diego R.; Dias, Jorge. "Symbolic Level Generalization of In-hand Manipulation Tasks from Human Demonstrations using Tactile Data Information". Paper presented in *IROS 2010 - 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2010.
Published · 10.5281/zenodo.4553413
- 7 Faria, Diego R.; Martins, Ricardo; Dias, Jorge. "Learning Motion Patterns from Multiple Observations along the Actions Phases of Manipulative Tasks". Paper presented in *IROS 2010 - 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei*, 2010.
Published · 10.5281/zenodo.4553421
- 8 Faria, Diego R.; Martins, Ricardo; Dias, Jorge. "Human reach-to-grasp generalization strategies: a Bayesian approach". Paper presented in *RSS 2009 - Robotics: Science and Systems, Seattle*, 2009.
Published · 10.5281/zenodo.4553390

Conference poster

- 1 Almeida, Margarida; Corado, Madalena; Martins, Ricardo; Sereno J; Abrunhosa, Antero J; Coelho-Santos, Vanessa . Corresponding author: Coelho-Santos, Vanessa. "Insights into neurovascular coupling development: mapping neonatal brain glucose metabolism positron emission tomography imaging". Paper presented in *CIBIT meeting 2025 - Coimbra Institute for Biomedical Imaging and Translational Research*, 2025.
- 2 Ferreira, Mariana; Martins, Ricardo; Quental, Hugo; Lemos, João; Jorge, André; Pereira, Daniela Jardim; Abrunhosa, Antero J; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Longitudinal MRI-Guided ¹¹C-UCB-J PET Mapping of Synaptic Density after Stroke-induced visual cortex damage". Paper presented in *CIBIT meeting 2025 - Coimbra Institute for Biomedical Imaging and Translational Research*, 2025.
- 3 Andreia C. Pereira; Mouga, Susana; Pina Rodrigues, Ana ; Santos, Sara; Martins, Ricardo; Dimitrov, Mihail; Ponteduro, Francesca; et al. Corresponding author: Daly, Eileen. "Can targeting the serotonin (5-HT) system 'shift' the neurochemistry of Autism?". Paper presented in *CIBIT meeting 2025 - Coimbra Institute for Biomedical Imaging and Translational Research*, 2025.
- 4 Martins, Ricardo; Oliveira, Francisco; Moreira, Fradique; Ana Paula Moreira; Abrunhosa, Antero J; Januário, Cristina; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Combining [¹¹C]Raclopride PET and MRI Morphometry for Automatic Classification of Parkinsonian Syndromes". Paper presented in *LASI Meeting 2025 - 2nd Annual Meeting of the Intelligent Systems Associate Laboratory*, 2025.
- 5 Mehra, Chirag; Griffioen, Gina; Onwordi, Ellis C.; Martins, Ricardo; Shatalina, Ekaterina; Kowalewska, Beata; Whitehurst, Thomas; et al. Corresponding author: Murphy, Declan. "Synaptic Density Marker, SV2A, Is Reduced in Autistic Adults and a Mouse Model of Idiopathic Autism". Paper presented in *INSAR meeting 2025 - International Society for Autism Research*, 2025.
- 6 Sousa, Daniela; Ferreira, Ana ; Pereira, Helena C. ; Amaral, Joana A.; Crisóstomo, Joana; Simões, Marco; Martins, Ricardo; et al. Corresponding author: Castelo-Branco, Miguel. "New Dynamic Facial Expression EEG Signatures Reveal Perceptual and Attentional Features Associated with Social Communication and GABA Phenotypes in Autism: A Link with the Third Visual Pathway". Paper presented in *INSAR meeting 2025 - International Society for Autism Research*,

2025.

- 7 Pereira, Andreia C. ; Mouga, Susana; Rodrigues, Ana P.; Santos, Sara; Martins, Ricardo; Dimitrov, Mihail ; Ponteduro, Francesca ; et al. Corresponding author: Castelo-Branco, Miguel. "Can targeting the serotonin (5-HT) system 'shift' the neurochemistry of Autism?". Paper presented in *AIMS-2-Trials General Assembly Meeting 2025: Autism Innovative Medicine Studies 2 Trials project*, 2025.
- 8 Mehra, Chirag; Onwordi, Ellis C.; Shatalina, Ekaterina; Kowalewska, Beata; Whitehurst, Thomas; Griffioen-Jarfalk, Gina; Martins, Ricardo; et al. Corresponding author: Murphy, Declan. "Synaptic density marker, SV2A, is reduced in autistic adults". Paper presented in *BPNA Annual Conference 2025 - British Paediatric Neurology Association*, 2025.
- 9 Duarte, Isabel C.; Martins, Ricardo; Júlio, Filipa; Almeida, Íris; Marques, Joana; Januário, Cristina; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "The impact of putamen dopamine in the prefrontal cortex connectivity during executive functioning in Parkinson's disease". Paper presented in *CIBIT meeting 2024 - Coimbra Institute for Biomedical Imaging and Translational Research*, 2024.
- 10 Martins, Ricardo; Madeira, Nuno; Duarte, João V.; Macedo, António; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Teoria da Mente implícita na Esquizofrenia e Doença Bipolar: padrões cerebrais distintivos de conectividade funcional". Paper presented in *XVII Portuguese National Congress of Psychiatry*, 2023.
- 11 Costa, Gabriel N.; Schaum, Michael; Duarte, João V.; Martins, Ricardo; Castelhana, João; Wibrall, Michael; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Distinct oscillatory patterns differentiate between segregation and integration processes in perceptual grouping". Paper presented in *CRSy23 - Champalimaud Research Symposium 2023*, 2023.
- 12 Martins, Ricardo; Duarte, João V.; Madeira, Nuno; Macedo, António; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Distinct functional connectivity patterns in dopaminergic and limbic pathways underlying task-based implicit Theory of Mind in Schizophrenia and Bipolar Disorder". Paper presented in *CRSy23 - Champalimaud Research Symposium 2023*, 2023.
- 13 Mehra, Chirag; Onwordi, Ellis; Kowalewska, Beata; Whitehurst, Thomas; Shatalina, Ekaterina; Griffioen, Gina; Martins, Ricardo; et al. "Synaptic density marker, SV2A, is reduced in autistic adults". Paper presented in *INSAR meeting 2023 - International Society for Autism Research*, 2023.
- 14 Duarte, João; Martins, Ricardo; Madeira, Nuno; Young, Kymberly; Macedo, António; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "A structural MRI study of cortical complexity features of major depression, schizophrenia, and bipolar disorder". Paper presented in *FRM 2023 - Federation of European Neuroscience Societies, Regional Meeting*, 2023.

- 15 Ferreira, Mariana S.; d'Almeida, Otília C.; Quental, Hugo; Martins, Ricardo; Lemos, João; Jorge, André; Castelo-Branco, Miguel. "Nervous system plasticity in stroke: functional magnetic resonance and PET". Paper presented in *CIBIT meeting 2023 - Coimbra Institute for Biomedical Imaging and Translational Research*, 2022.
- 16 Castelo-Branco, Miguel; Sousa, Teresa; Duarte, João Valente; MARTINS, RICARDO; Costa, Gabriel. "The role of motion adaptation in bottom-up mechanisms of perceptual decision-making". Paper presented in *13th Symposium of the BIAL Foundation "Behind and Beyond the Brain"*, 2022.
- 17 Costa, Gabriel N.; Schaum, Michael; MARTINS, RICARDO; Duarte, João V.; Castelhana, João; Wibral, Michael; Castelo-Branco, Miguel. "Distinct roles of beta and gamma oscillations during integration of ambiguous motion". Paper presented in *FRM 2019 - Federation of European Neuroscience Societies Regional meeting*, 2019.
- 18 Campos, Alexandre S.; Sousa, Teresa; Duarte, João V.; Costa, Gabriel N.; Martins, Ricardo; Castelo-Branco, Miguel; Sayal, Alexandre. "Unraveling the neural correlates of perceptual hysteresis: the effects of perceptual history on the visual perception of an ambiguous stimulus". Paper presented in *FENS 2018 - 11th FENS Forum of Neuroscience*, 2018.
- 19 Sousa, Teresa; Campos, Alexandre S.; Duarte, João V.; Costa, Gabriel N.; Martins, Ricardo; Castelo-Branco, Miguel. "Evidence for asymmetric perceptual adaptation to coherent and incoherent moving plaids". Paper presented in *OHBM 2018 - 24th Annual Meeting of the Organization for Human Brain Mapping*, 2018.
- 20 Sousa, Teresa; Kemper, Valentin; Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Goebel, Rainer; Castelo-Branco, Miguel. "The Perceptual Integration of Visual Motion Revealed by hMT+ Interhemispheric Connectivity: a 7 Tesla study". Paper presented in *13th International Conference for Cognitive Neuroscience, Amsterdam*, 2017.
- 21 Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Castelo-Branco, Miguel. "Beta oscillations reflect perceptual experience under ambiguous stimulation but not in the absence of conflict". Paper presented in *13th International Conference for Cognitive Neuroscience*, 2017.
- 22 Duarte, João V.; Costa, Gabriel N.; Martins, Ricardo; Castelo-Branco, Miguel. "Long-range interhemispheric binding of bistable surface motion reflects bottom-up processes generated within hMT+". Paper presented in *13th International Conference for Cognitive Neuroscience*, 2017.
- 23 Duarte, João V.; Costa, Gabriel N.; Martins, Ricardo; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "Maintenance of perceptual stability of interhemispheric surface motion is associated with bottom-up influences generated within hMT+". Paper presented in *7th Iberian Congress on Perception*, 2017.

- 24 Sousa, Teresa; Duarte, João V.; Costa, Gabriel N.; Kemper, Valentin; Martins, Ricardo; Goebel, Rainer; Castelo-Branco, Miguel. "High-resolution 7T fMRI data on the perceptual long-range segregation vs. integration of bistable moving stimuli". Paper presented in *7th Iberian Congress on Perception*, 2017.
- 25 Campos, Alexandre S.; Sousa, Teresa; Duarte, João V.; Costa, Gabriel N.; Martins, Ricardo; Castelo-Branco, Miguel. "Study of motion adaptation and its role in deciding between competing surface representations". Paper presented in *7th Iberian Congress on Perception*, 2017.
- 26 Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Wibral, Michael; Castelo-Branco, Miguel. "Beta oscillations during motion integration and segmentation: evidence of binding or perceptual bias?". Paper presented in *7th Iberian Congress on Perception*, 2017.
- 27 Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Wibral, Michael; Castelo-Branco, Miguel. "Binding of ambiguous visual stimuli is associated with changes in beta power but not with synchrony". Paper presented in *OHBM 2016 - 22nd Annual Meeting of the Organization for Human Brain Mapping*, 2016.
- 28 Sousa, Teresa; Kemper, Valentin; Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Goebel, Rainer; Castelo-Branco, Miguel. "Long-range perceptual integration of visual motion revealed at high resolution 7T fMRI". Paper presented in *OHBM 2016 - 22nd Annual Meeting of the Organization for Human Brain Mapping*, 2016.
- 29 Sousa, Teresa; Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Kemper, Valentin; Goebel, Rainer; Castelo-Branco, Miguel. "Perceptual interpretation of visual motion revealed at high resolution 7T fMRI: differential modulation of neural population activity". Paper presented in *V IBILI Meeting - Coimbra Institute for Clinical and Biomedical Research*, 2015.
- 30 Costa, Gabriel N.; Duarte, João V.; Martins, Ricardo; Madeira, Nuno; Castelo-Branco, Miguel. "Increased synchrony correlates with visual binding: a study on visual integration on healthy subjects and schizophrenic patients". Paper presented in *Annual Conference on Clinical Neurophysiology and Neuroimaging*, 2015.
- 31 Costa, Gabriel N.; Duarte, João V.; Intaite, Monika; Martins, Ricardo; Castelo-Branco, Miguel. "Perceptual motion integration correlates with long range neural synchrony: a study on the temporal binding hypothesis". Paper presented in *IV IBILI meeting - Coimbra Institute for Clinical and Biomedical Research.*, 2014.
- 32 Martins, Ricardo; Ferreira, João Filipe; Dias, Jorge. "Touch attention Bayesian models for object feature extraction in robotic blind manipulation". Paper presented in *MaxEnt2012 - International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering*, 2012.

- 1 Jorge, Lília; Canário, Nádia; Martins, Ricardo; Abrunhosa, Antero; Santana, Isabel; Castelo-Branco, Miguel. Corresponding author: Castelo-Branco, Miguel. "The relation between neuroinflammation, amyloid- β load, grey matter loss and brain activity in visual object recognition regions in Alzheimer's Disease". *NeuroImage: Reports* 6 1 (2026): 100305. <https://doi.org/10.1016/j.ynirp.2025.100305>.
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Thesis / Dissertation

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Other

Dataset

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- 3 Martins, Ricardo. Open-data, citizen science: iNaturalist research-grade observations recorded by Ricardo Martins. <https://www.gbif.org/>. 2024.
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Other output

- 1 Synaptic density in autism in a multi-center cohort. OSF Pre-registration. 2024. Griffioen, Gina; Borg, Jacqueline; Mehra, Chirag; Murphy, Declan; Matheson, Granville; Martins, Ricardo; Castelo-Branco, Miguel; et al. <https://doi.org/10.17605/OSF.IO/MGST3>.
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Activities

Oral presentation

	Presentation title	Event name Host (Event location)
2024/07/17	CIBIT Summer School 2024: ICNAS-UC MRI unit - visit and demonstration (instrumentation, study design, structural and functional imaging data)	CIBIT Summer School 2024 CIBIT - Coimbra Institute for Biomedical Imaging and Translational Research (Portugal)

2023/07	CIBIT Summer School 2023: ICNAS-UC MRI unit - visit and demonstration (instrumentation, study design, structural and functional imaging data)	CIBIT Summer School 2023 CIBIT - Coimbra Institute for Biomedical Imaging and Translational Research (Coimbra, Portugal)
2022/10	IAEA's technical cooperation project: Data analysis pipelines in brain PET-MRI studies - ICNAS research activities	IAEA's technical cooperation project ARG6021 - Advancing Nuclear Medicine and Radiology Through Innovative Data Driven Methodologies ICNAS-UC (Coimbra, Portugal)
2022/07	CIBIT Summer School 2022: ICNAS-UC MRI unit - visit and demonstration (instrumentation, study design, structural and functional imaging data)	CIBIT Summer School 2022 CIBIT - Coimbra Institute for Biomedical Imaging and Translational Research (Coimbra, Portugal)
2021/11/30	"How do Scientists Study the Brain? Introduction to Magnetic Resonance Brain Imaging" - Martim de Freitas' High-school Weekly Science Club 2021/2022	Martim de Freitas' High-school Weekly Science Club 2021/2022 Martim de Freitas' High-school (Coimbra, Portugal)
2020/01/23	"How do Scientists Study the Brain? Introduction to Magnetic Resonance Brain Imaging" - Martim de Freitas' High-school Weekly Science Club 2019/2020	Martim de Freitas' High-school Weekly Science Club 2019/2020 Martim de Freitas' High-school (Coimbra, Portugal)
2019/10/21	Neuroimaging studies in psychiatric disorders: an overview of CIBIT's projects	Psychiatry course Integrated Master's degree in Medicine - University of Coimbra (Coimbra, Portugal)
2014/09/05	Touch attention Bayesian models for robotic active haptic exploration of heterogeneous surfaces	IROS 2014 - IEEE/RSJ International Conference on Intelligent Robots and Systems IEEE Robotics and Automation Society (Chicago, United States)
2013/08/30	Touch attention Bayesian models for robotic active haptic exploration	REACTS 2013 - Workshop on Recognition and Action for Scene Understanding - International Conference of Computer Analysis of Images and Patterns CAIP 2013 - International Conference of Computer Analysis of Images and Patterns (York, United Kingdom)
2012/09/06	A Probabilistic Framework to Detect Suitable Grasping Regions on Objects	SYROCO 2012 - IFAC Symposium on Robot Control International Federation of Automatic Control (Dubrovnik, Croatia)

2012/07/18	Touch attention Bayesian models for object feature extraction in robotic blind manipulation	MaxEnt2012 - International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering Max Planck Institute for Plasma Physics (Munich, Germany)
2012/03/05	Representation framework of perceived object softness characteristics for active robotic hand exploration	HRI 2012 - ACM/IEEE International Conference on Human-Robot Interaction IEEE Robotics and Automation Society (Boston, United States)
2012/02/03	Representation framework of perceived object softness characteristics for active robotic hand exploration	HANDLE 2012 - workshop on Developmental pathway towards autonomy and dexterity in robot in-hand manipulation Universitat Jaume I (Benicasim, Spain)
2010/10/18	Symbolic Level Generalization of In-hand Manipulation Tasks from Human Demonstrations using Tactile Data Information	IROS 2010 - IEEE/RSJ International Conference on Intelligent Robots and Systems - Workshop on Grasping Planning and Task Learning by Imitation IEEE Robotics and Automotaton Society (Taipei, Taiwan)
2009/07/28	Human reach-to-grasp generalization strategies: a Bayesian approach	RSS 2009 - Robotics: Science and Systems - Workshop: Understanding the Human Hand for Advancing Robotic Manipulation Robotics: Science and Systems (Seattle, United States)

Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2023/09 - Current	Longitudinal study of biomarkers of visual cortex plasticity in stroke: fMRI population receptive fields mapping and [11C]-UCB-J PET synaptic density assessment Co-supervisor of Mariana Ferreira	Doctoral Program in Biomedical Engineering (PhD) Universidade de Coimbra, Portugal
2023/09 - 2024/09/25	Molecular imaging and cognitive functions in Parkinson's disease: image processing integrating [18F]FDOPA PET Co-supervisor of Íris Almeida	Master in Medical Physics (Master) Universidade de Coimbra, Portugal

Event organisation

	Event name Type of event (Role)	Institution / Organization
2024/07/15 - 2024/07/19	CIBIT Summer School 2024 (2024/07/15 - 2024/07/19) Symposium	CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal
2019/10 - 2021/01	Martim de Freitas' school Weekly Science Club: "Scientific Method: How do Scientists Study the Brain?" (2019/10 - 2021/01) Exhibition (Co-organisator)	CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal
2017/09/01 - 2017/09/01	RO-MAN2017 - IEEE International Symposium on Robot and Human Interactive Communication: Workshop on ARTificial Perception, MACHine Learning and DATasets for Human-Robot Interaction (ARMADA'17). (2017/09/01 - 2017/09/01) Workshop (Member of the Scientific Committee)	Universidade de Coimbra Instituto de Sistemas e Robótica, Portugal CNC.IBILI, Portugal
2017/07/06 - 2017/07/07	7th Iberian Congress on Perception (2017/07/06 - 2017/07/07) Congress (Member of the Organising Committee)	Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal CNC.IBILI, Portugal
2012/09/05 - 2012/09/05	SYROCO 2012 - 10th IFAC Symposium on Robot Control - Co-chairing of session "Grasping" (2012/09/05 - 2012/09/05) Conference (Co-organisator)	Universidade de Coimbra, Portugal

Event participation

	Activity description Type of event	Event name Institution / Organization
2025/07/01 - 2025/07/01	Precision neurocognition: An emerging diagnostic paradigm leveraging digital cognitive assessment technology - David J. Libon (online) Seminar	Precision neurocognition: An emerging diagnostic paradigm leveraging digital cognitive assessment technology - David J. Libon (online) Rowan University, United States
2025/06/26 - 2025/06/26	Amyloid and Tau in Alzheimer's Disease: Insights into Disease Progression - Niklas Mattsson-Carlgren (online)	Amyloid and Tau in Alzheimer's Disease: Insights into Disease Progression - Niklas Mattsson-Carlgren (online)

Seminar

Biogen Idec Inc, United States

2025/05/14 - 2025/05/14	Medical Data Annotation Practices Workshop (online) Workshop	Medical Data Annotation Practices Workshop Medical Imaging with Deep Learning Foundation, Netherlands
2024/12/16 - 2024/12/16	3rd Annual Meeting of CIBIT - 2024 Meeting	3rd Annual Meeting of CIBIT - 2024 Universidade de Coimbra, Portugal
2024/02/23 - 2024/02/23	Basic introduction to multivariate neuroimaging analysis - for nerds and novices (online) Seminar	Molecular Connectivity Working Group Columbia University Irving Medical Center, United States
2024/01/19 - 2024/01/19	Brain connectomics: time for a molecular imaging perspective? (online) Seminar	Molecular Connectivity Working Group Université de Liège, Belgium
2023/12/18 - 2023/12/18	2nd Annual Meeting of CIBIT - 2023 Symposium	2nd Annual Meeting of CIBIT CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal
2023/09/20 - 2023/09/21	Brain Connectivity Workshop 2023: connectomics and mental health (online) Workshop	Brain Connectivity Workshop 2023: connectomics and mental health (online) Wellcome Foundation Ltd, United Kingdom
2023/04 - 2023/06	UT Austin Portugal - Online Advanced Course on Biomedical Imaging 2023 (online) Workshop	UT Austin Portugal - Online Advanced Course on Biomedical Imaging 2023 Universidade de Coimbra, Portugal The University of Texas at Austin Department of Biomedical Engineering, United States
2023/04/03 - 2023/04/05	Turku PET Centre - PET basics course 2023 (online) Workshop	Turku PET Centre - PET basics course 2023 Turun PET keskus, Finland
2023/01/19 - 2023/01/20	Kraepelin Symposium 2023: "Precision Psychiatry - Transforming the Landscape of Mental Health Care" (online) Symposium	Kraepelin Symposium 2023 Ludwig-Maximilians-Universität München, Germany
2022/12/16 - 2022/12/16	1st Annual Meeting of CIBIT - 2022 Symposium	1st Annual Meeting of CIBIT - 2022 CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational

2022/07/26 - 2022/07/26	Introduction to Siemens syngo.share universal Vendor Neutral Archive (VNA). Management and sharing of clinical image data, multimedia data, radiological studies and clinical documents. Workshop	Introduction to Siemens syngo.share Universidade de Coimbra, Portugal Siemens Healthcare GmbH, Germany
2022/05/28 - 2022/05/28	PET for brain connectivity: back to the future? (online) Workshop	Brain and Brain PET 2022 - Satellite Symposium University of Glasgow, United Kingdom
2022/04/04 - 2022/04/06	Turku PET Centre - PET basics course 2022 (online) Workshop	Turku PET Centre - PET basics course 2022 Turun PET keskus, Finland
2021/12/15 - 2021/12/15	Proton Therapy: the Challenges and the Opportunities (online) Symposium	The University of Texas at Austin, United States Universidade de Coimbra, Portugal
2021/11/18 - 2021/11/18	Introduction to Siemens syngo.via imaging software. Advanced visualization and quantification of PET and MRI data. Workshop	Introduction to Siemens syngo.via imaging software. Siemens Healthcare GmbH, Germany Universidade de Coimbra Instituto de Ciências Nucleares Aplicadas à Saúde, Portugal
2021/11/11 - 2021/11/12	Introduction to Data Management Plans. From introduction and basic concepts to hands-on exercises. Workshop	Introduction to Data Management Plans CIBIT-UC: Coimbra Institute for Biomedical Imaging and Translational Research, University of Coimbra, Portugal
2021/08/18 - 2021/08/20	Turku PET Centre - brain imaging course 2021 (online) Workshop	Turku PET Centre Brain Imaging Course 2021 (online) Turun PET keskus, Finland
2021/05/25 - 2021/05/28	Brain Connectivity Workshop 2021: consciousness and cognition (online) Workshop	Brain Connectivity Workshop 2021: consciousness and cognition (online) Rotman Research Institute, Canada
2021/04/06 - 2021/04/08	Turku PET Centre - PET basics course 2021 (online) Workshop	Turku PET Centre - PET basics course 2021 Turun PET keskus, Finland
2021/03/01 - 2021/03/03	Terra Incognita: diving into the subcortex 2021 (online) Workshop	Terra Incognita: diving into the subcortex 2021 (online) Universiteit van Amsterdam,

2020/04/19 - 2020/04/19	Computational Psychiatry Satellite Event - Society of Biological Psychiatry Annual Meeting 2020 (online) Workshop	Computational Psychiatry Satellite Event - Society of Biological Psychiatry Annual Meeting 2020 (online) Society of Biological Psychiatry, United States
2019/10/07 - 2019/10/09	KCL PET Methodology Course 2019 Workshop	2019 KCL PET Methodology Course King's College London, United Kingdom
2019/07/11 - 2019/07/18	IST Lisbon Machine Learning School 2019 Workshop	2019 IST Lisbon Machine Learning School Universidade de Lisboa, Portugal
2018/09/10 - 2018/09/14	ETHZ/UZH Computational Psychiatry Course 2018 Workshop	ETHZ/UZH Computational Psychiatry Course 2018 Eidgenössische Technische Hochschule Zürich, Switzerland
2014/09/14 - 2014/09/18	IROS 2014 - IEEE/RSJ International Conference on Intelligent Robots and Systems Conference	IROS 2014 - IEEE/RSJ International Conference on Intelligent Robots and Systems IEEE Robotics and Automation Society, United States
2012/09/05 - 2012/09/07	SYROCO 2012 - IFAC Symposium on Robot Control Conference	SYROCO 2012 - IFAC Symposium on Robot Control International Federation of Automatic Control, Austria
2012/07/15 - 2012/07/20	MaxEnt 2012 - International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering Workshop	MaxEnt 2012 - International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering Max-Planck-Institut für Plasmaphysik, Germany
2012/03/05 - 2012/03/08	HRI2012 - ACM/IEEE international conference on Human-Robot Interaction Conference	HRI2012 - ACM/IEEE international conference on Human-Robot Interaction IEEE Robotics and Automation Society, United States
2010/10/18 - 2010/10/22	IROS 2010 - IEEE/RSJ International Conference on Intelligent Robots and Systems Conference	IROS 2010 - IEEE/RSJ International Conference on Intelligent Robots and Systems IEEE Robotics and Automation Society, United States

2010/09/27 - 2010/10/01	Summer School on Robotic Grasping 2010 Workshop	Summer School on Robotic Grasping 2010 Universitat Jaume I, Spain
2009/06/28 - 2009/07/01	RSS 2009 - Robotics: Science and Systems Conference	RSS 2009 - Robotics: Science and Systems University of Washington College of Engineering, United States

Jury of academic degree

	Theme Role	Candidate name (Type of degree) Institution / Organization
2025/09/23	The role of dopaminergic neurotransmission in successful weight loss through bariatric surgery: a clinical neuroimaging study (Thesis) Arguer	Marta Lapo Pais (PhD) Universidade de Coimbra, Portugal
2024/09/27	Neuronal function of the lumbar spine: an fMRI study in chronic low back pain and high-performance athletes (Thesis) Main arguer	Margarida Oliveira Sebastião (Master) Universidade de Coimbra, Portugal
2024/07/26	Functional imaging and cognitive functions in Parkinson's disease: image processing integrating MRI data (Thesis) Main arguer	Joana Gomes Marques (Master) Universidade de Coimbra, Portugal
2023/09/25	Functional brain connectivity underlying decision making in social cognition: an fMRI study in Autism Spectrum Disorder (Thesis) Main arguer	Mariana Simões Marques (Master) Universidade de Coimbra, Portugal
2022/09/29	Functional connectivity as potential biomarker in Multiple Sclerosis using fMRI (Thesis) Main arguer	Jacinta Maria Henriques Silva (Master) Universidade de Coimbra, Portugal
2021/09/27	Multivariate analysis of brain fMRI activity patterns - Análise multivariada de padrões cerebrais no estudo do discurso e representação semântica de conceitos (Thesis) Main arguer	Ana Catarina Pires Nogueira (Other) Instituto Politécnico de Coimbra Instituto Superior de Engenharia de Coimbra, Portugal

Ad Hoc journal article review

	Journal title (ISSN)	Publisher
2025/10 - Current	Human Brain Mapping (1097-0193)	Wiley

2025/10 - Current	Biomedical Physics & Engineering Express (2057-1976)	IOP
2025/02 - Current	IEEE Robotics and Automation Letters (2377-3766)	IEEE
2025 - Current	Physica Scripta (1402-4896)	IOP
2024/09 - Current	Engineering Research Express (2631-8695)	IOP
2024 - Current	NeuroImage: Clinical (2213-1582)	Elsevier
2024 - Current	Machine Learning Science and Technology (2632-2153)	IOP
2023/10 - Current	Psychological Medicine (1469-8978)	Cambridge University Press
2023/08 - Current	Journal of Neural Engineering (1741-2552)	IOP
2023/07 - Current	Journal of Ambient Intelligence and Humanized Computing (1868-5145)	Springer
2021/02 - Current	Physics in Medicine and Biology (0031-9155)	IOP
2020/10 - Current	IEEE Transactions on Robotics (1552-3098)	IEEE
2020/07 - Current	IEEE Transactions on Cybernetics (2168-2267)	IEEE
2020/01 - Current	Scientific Reports (2045-2322)	Springer Science and Business Media LLC
2018/09 - Current	IEEE Intelligent Systems (1541-1672)	IEEE
2018/03/01 - Current	Neurocomputing (0925-2312)	Elsevier
2017/11/01 - Current	Journal of Field Robotics (1556-4967)	Wiley (John Wiley & Sons)
2017/10/01 - Current	Paladyn Journal of Behavioral Robotics (2081-4836)	De Gruyter Open Sp. z o.o.
2013/04/01 - Current	International Journal of Robotics and Automation (0826-8185)	ACTA Press
2012/03/01 - Current	Pattern Recognition Letters (0167-8655)	Elsevier

Committee member

	Activity description Role	Institution / Organization
2006 - 2007	Students' representative in the University of Coimbra Physics Department council. Member	Universidade de Coimbra, Portugal

Conference scientific committee

	Conference title	Conference host
2025 - 2025	ICORR 2025 - IEEE/RAS-EMBS International Conference on Rehabilitation Robotics (conference paper reviewer)	IEEE-RAS, IEEE-EMBS
2025 - 2025	SMC 2025 - IEEE International Conference on Systems, Man, and Cybernetics (conference paper reviewer)	IEEE SMC Society
2024 - 2024	SMC 2024 - IEEE International Conference on Systems, Man, and Cybernetics (conference paper reviewer)	IEEE SMC Society
2023 - 2023	ICRA 2023 - IEEE International Conference on Robotics and Automation (conference paper reviewer)	IEEE Robotics and Automotaton Society
2023 - 2023	SMC 2023 - IEEE International Conference on Systems, Man, and Cybernetics (conference paper reviewer)	IEEE SMC Society
2021 - 2021	WHC 2021 - IEEE World Haptics Conference (conference paper reviewer)	IEEE Robotics and Automotaton Society
2021 - 2021	CASE 2021 - IEEE International Conference on Automation Science and Engineering (conference paper reviewer)	IEEE Robotics and Automotaton Society
2020 - 2020	UR 2020 - IEEE International Conference on Ubiquitous Robots (conference paper reviewer)	IEEE Robotics and Automotaton Society
2020 - 2020	CASE 2020 - IEEE International Conference on Automation Science and Engineering (conference paper reviewer)	IEEE Robotics and Automotaton Society
2020 - 2020	ROMAN 2020 - IEEE International Conference on Robot & Human Interactive Communication (conference paper reviewer)	IEEE Robotics and Automotaton Society
2020 - 2020	SSRR 2020 - IEEE International Symposium on Safety, Security and Rescue Robotics (conference paper reviewer)	IEEE Robotics and Automotaton Society
2019 - 2019	ICAETT 2019 - International Conference on Advances in Emerging Trends and Technologies (conference paper reviewer)	Universidad Tecnológica Israel
2018 - 2018	ICRA 2018 - IEEE International Conference on Robotics and Automation (conference paper reviewer)	IEEE Robotics and Automation Society
2018 - 2018	IROS 2018 - IEEE/RSJ International Conference on Intelligent Robots and Systems	IEEE Robotics and Automation Society

(conference paper reviewer)

2018 - 2018	IS 2018 - IEEE International Conference on Intelligent Systems (conference paper reviewer)	IEEE Technology and Engineering Management Society
2017 - 2017	IROS 2017 - IEEE/RSJ International Conference on Intelligent Robots and Systems (conference paper reviewer)	IEEE Robotics and Automation Society
2016 - 2016	RO-MAN 2016 - IEEE International Symposium on Human and Robot Interactive Communication (conference paper reviewer)	IEEE Robotics and Automation Society
2014 - 2014	AIM 2014 - IEEE/ASME International Conference on Advanced Intelligent Mechatronics (conference paper reviewer)	IEEE Robotics and Automation Society
2013 - 2013	IROS 2013 - IEEE/RSJ International Conference on Intelligent Robots and Systems (conference paper reviewer)	IEEE Robotics and Automation Society
2013 - 2013	SAC 2013 - 28th Symposium On Applied Computing (conference paper reviewer)	ACM-SIGAPP (Association for Computing Machinery - Special Interest Group on Applied Computing)
2012 - 2012	ICRA 2012 - IEEE International Conference on Robotics and Automation (conference paper reviewer)	IEEE Robotics and Automation Society
2012 - 2012	IROS 2012 - IEEE/RSJ International Conference on Intelligent Robots and Systems (conference paper reviewer)	IEEE Robotics and Automation Society
2012 - 2012	SYROCO 2012 - 10th IFAC Symposium on Robot Control (conference paper reviewer)	IFAC - International Federation of Automatic Control

Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2008 - 2009	Biosignals Processing and Analysis / Signals and Systems	Biomedical Engineering / Physics Engineering (Mestrado integrado)	Universidade de Coimbra, Portugal

Interview (newspaper / magazine)

	Activity description	Newspaper / Forum
2014/04	Interview with Ricardo Martins (alumnus). Science dissemination activity. Public engagement and outreach.	School Newspaper "Nova Geração" - Agrupamento de Escolas de Proença-a-Nova.

Interview (tv / radio show)

	Program	Theme
2014/02/25 - 2014/02/25	HANDLE project - public final demonstration. Contributions: Data and code/algorithms to learn and transfer manipulation skills from human to robot. Data visualization tools. https://youtu.be/XSw5QVdzGW4	Autonomous robotic systems with perception and dexterous manipulation capabilities.
2014/02/07 - 2014/02/07	HANDLE project - dissemination video. Presentation and demonstration of project outcomes. https://youtu.be/KJybBorZjH0	Autonomous robotic systems with perception and dexterous manipulation capabilities.

Other jury / evaluation

	Activity description	Institution / Organization
2013/03/01 - 2013/04/30	Invited evaluator in FP7-ICT ECHORD project (European Clearing House for Open Robotics Development) : evaluation of the experiments InterAID and ODEUO (outcomes of technology transfer experiments that have been funded by the European Commission).	Università degli Studi della Campania Luigi Vanvitelli, Italy

Distinctions

Award

2024	IOP Outstanding Reviewer Awards 2024: "Machine Learning: Science and Technology" IOP Publishing Ltd, United Kingdom
2022	CHUC research awards 2022 - best article (translational research) Centro Hospitalar e Universitário de Coimbra EPE, Portugal
2019	Janssen Neuroscience RWE Awards 2019 - clinical series Janssen Pharmaceutica NV, Belgium
2007	University of Coimbra - Top 3% best students award Universidade de Coimbra, Portugal
2007	University of Coimbra - Faculty of Sciences and Technology - best students merit award Universidade de Coimbra, Portugal
2006	University of Coimbra - Top 3% best students award Universidade de Coimbra, Portugal
2006	BPI-FCTUC best biomedical engineering student award Universidade de Coimbra Faculdade de Ciencias e Tecnologia, Portugal

2006	University of Coimbra - Faculty of Sciences and Technology - best students merit award Universidade de Coimbra, Portugal
2005	University of Coimbra - Top 3% best students award Universidade de Coimbra, Portugal
2005	BPI-FCTUC best biomedical engineering student award Universidade de Coimbra Faculdade de Ciencias e Tecnologia, Portugal
2005	University of Coimbra - Faculty of Sciences and Technology - best students merit award Universidade de Coimbra, Portugal
2003	BPI-FCTUC best biomedical engineering student award Universidade de Coimbra Faculdade de Ciencias e Tecnologia, Portugal
1996	1st place, I Internal Mathematical Olympiad High School E.B. 2,3/S Pedro da Fonseca, Portugal