



Curriculum Vitae

Ana Lúcia dos Santos Faria

I am a Health and Clinical Psychologist (Neuropsychology sub-specialty) by Ordem dos Psicólogos with a Ph.D. in Rehabilitation Psychology from the University of Coimbra in 2020. The main outcomes of my thesis were the development of a new cognitive rehabilitation personalization framework with objective guidelines that were used to create three innovative tools - Task Generator, Reh@Task, and Reh@City - and its clinical validation with stroke patients from Madeira Health Service. In 2015, I was awarded a doctoral scholarship from ARDITI, with host institution M-ITI/LARSyS. During my doctoral studies, I have been involved in an EU project called RehabNet(303891 FP7-PEOPLE-2011). From 2020 to 2022, I was a post-doctoral researcher in an interdisciplinary project called BRaNT(PTDC/CCI-COM/31046/2017), which addressed the scientific limitations of traditional cognitive rehabilitation practices through virtual reality games that allowed automatic personalization through Artificial Intelligence approaches. I have been actively involved in the field of virtual reality-based tests for complex cognitive functions mapping in tumor resection through awake craniotomy. In 2021, I made a scientific expedition to the CHU Angers Neurosurgery Service (France) to attend two Awake Brain Surgeries procedures and learn the most about their virtual reality-based methodologies. I envisioned a project named CogMap, which I am pursuing through the supervision of three informatics engineering and clinical psychology master's thesis. CogMap's first steps already involve two universities (Madeira and Coimbra Universities) and three hospitals (Funchal, Lisbon and CHU Angers). In 2021, a project in which I was the co-PI was approved for funding by the Fundação para a Ciência e Tecnologia: Adaptive Virtual Reality for coping with involuntary early pregnancy loss (EXPL/CCI-INF/0298/2021). I published, mostly as first author, 19 articles in peer-reviewed and indexed journals such as the Journal of NeuroEngineering and Rehabilitation (IF: 5.8), Frontiers in Psychology (IF: 3.8), Frontiers in Neurology (IF: 3.4), Journal of Medical Internet Research RAT (IF: 7), Virtual Reality (IF: 4.2) and Games for Health (IF: 3.5). Additionally, I published five book chapters and several conference articles, some ACM and IEEE. I was awarded a Best Student Paper Commendation in 2014 and 2016 ICDVRAT and Best Student Paper in the 2018 Conference on Applied Psychology and Human Behavior. In 2022, I was the runner-up for the early-career award of the International Society for Virtual Rehabilitation, delivered at the Rehabweek conference in the Netherlands. I was invited to be a reviewer in several international journals and conferences. I am a Guest Editor of the Journal of Rehabilitation and Assistive Technologies Engineering (Special Collection on Virtual, Augmented, and Mixed Reality Interventions for Older Adults), the Frontiers journal (Research Topic in Human-Centered Solutions and Synergies across Robotic and Digital Systems for Rehabilitation) and the International Journal of Clinical and Health Psychology. I have been an active participant, with posters and oral presentations, in relevant clinical meetings, such as the International Congress of Neuropsychological Rehabilitation in ABI (Best Communication prize), the International Neuropsychological Society Meetings, and the European Stroke Organisation Conference. I have been an invited assistant professor at Madeira University since 2010, and currently, I supervise Master's students from different areas, such as: Clinical and Health Psychology, Neuropsychology, Informatics Engineering and Interactive Media Design.

Identification

Personal identification

Full name

Ana Lúcia dos Santos Faria

Gender

Female

Birth date

1985/05/21

Citation names

Faria, Ana Lúcia

Author identifiers

Ciência ID
F617-BFEE-77E0

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Telephones

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Addresses

Agência Regional para o Desenvolvimento da Investigação, Tecnologia e Inovação - ARDITI, Caminho da Penteadá, 9020-105 Funchal, Funchal, Portugal (Professional)
Rua Frei Pedro da Guarda, 12A, 9300-066 Câmara de Lobos, Câmara de Lobos, Portugal (Personal)

Websites

<https://neurorehablab.arditi.pt> (Professional)

Knowledge fields

Social Sciences - Psychology
Medical and Health Sciences - Basic Medicine - Neurosciences
Engineering and Technology - Electrotechnical Engineering, Electronics and Informatics

Languages

| Language | Speaking | Reading | Writing | Listening | Peer-review |
|----------------------------|-------------------------|-------------------|-------------------|-------------------|-------------------------|
| English | Advanced (C1) | Proficiency (C2) | Proficiency (C2) | Proficiency (C2) | Proficiency (C2) |
| French | Upper intermediate (B2) | Advanced (C1) | Intermediate (B1) | Advanced (C1) | Upper intermediate (B2) |
| Spanish; Castilian | Intermediate (B1) | Intermediate (B1) | Intermediate (B1) | Intermediate (B1) | Intermediate (B1) |
| Portuguese (Mother tongue) | | | | | |

Education

Degree

Classification

| | | |
|---|---|---|
| 2013/09/01 - 2020/01/10 Concluded | Psychology (Doutoramento) Major in Rehabilitation Universidade de Coimbra Faculdade de Psicologia e de Ciências da Educação, Portugal <i>"Development and clinical validation of interactive technologies for cognitive rehabilitation of stroke patients" (THESIS/DISSERTATION)</i> | Approved with praise and distinction by unanimity |
| 2018 Concluded | Clinical and Health Psychology (speciality in Neuropsychology) (Título de especialista) Major in Neuropsychology Ordem dos Psicólogos Portugueses, Portugal | |
| 2016/06 - 2016/06 Attended | Therapy of personality disorders: an intervention focused on processes (Outros) Ordem dos Psicólogos Portugueses, Portugal | |
| 2003/09 - 2008/12 Concluded | Health and Clinical Psychology (Mestrado integrado) Major in Clinical Psychogerontology Universidade de Coimbra Faculdade de Psicologia e de Ciências da Educação, Portugal <i>"The episodic memory in the Mild Cognitive Impairment (MCI): the survival processing" (THESIS/DISSERTATION)</i> | 14 |
| 2008/10 - 2008/10 Concluded | Dementias Workshop (Outros) Universidade Nova de Lisboa - Faculdade de Ciências Médicas, Portugal | |
| 2008/03 - 2008/07 Concluded | Intervention Neuropsychology (Pós-Graduação) Associação Central de Psicologia, Portugal | 15 |

Affiliation

Science

| | Category Host institution/organization | Employer |
|-------------------|---|---|
| 2020/03 - 2022/09 | Postdoc (Research) Universidade Nova de Lisboa Laboratório para a Ciência da Computação e Informática, Portugal | Universidade Nova de Lisboa Laboratório para a Ciência da Computação e Informática, Portugal |

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| 2012/09/01 - 2020/03/20 | Researcher (Research) Universidade da Madeira, Portugal | Universidade da Madeira Madeira Interactive Technologies Institute, Portugal |
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Teaching in Higher Education

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| Category | Employer |
| Host institution/organization | |

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|-------------------|--|--|
| 2022/10 - Current | Invited Assistant Professor (University Teacher) | Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |
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| 2010/06 - 2022/07 | Invited Adjunct Teacher (Polytechnic Teacher) | Universidade da Madeira Escola Superior de Enfermagem da Madeira, Portugal |
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Other Careers

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| Category | Employer |
| Host institution/organization | |

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|-------------------|-------------------------------------|-----------------------------|
| 2012/01 - 2014/02 | Técnico Superior (Técnico Superior) | Lar Vila Assunção, Portugal |
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| 2009/02 - 2010/04 | Técnico Superior (Técnico Superior) | Serviço de Saúde da Região Autónoma da Madeira, Portugal |
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Positions / Appointments

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| Category | Employer |
| Host institution/organization | |

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|-------------------|---|---|
| 2018/01 - Current | Member Universidade da Madeira, Portugal | Observatório Regional de Saúde Mental, Portugal |
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| 2015/04 - Current | Member of the board | Alzheimer Portugal - delegação da Madeira , Portugal |
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Others

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| Category | Employer |
| Host institution/organization | |

2007/09 - 2008/10

Internship

Centro Hospitalar e Universitário de
Coimbra EPE, Portugal

Projects

Grant

| | Designation | Funders |
|----------------------|--|---|
| 2023/01 - Current | Rostos Madeira SE22-00261 Researcher Alzheimer Portugal - delegação da Madeira , Portugal | BPI, Portugal Ongoing |
| 2020/01 - 2020/03/20 | MACBIOIDI: Promoting the cohesion of Macaronesian regions through a common ICT platform for biomedical R & D & i MAC/1.1.b/098 Post-doc Fellow Universidade da Madeira Madeira Interactive Technologies Institute, Portugal | Ongoing |
| 2015/11 - 2020/02 | Development and clinical validation of interactive technologies for cognitive rehabilitation of stroke patients M1420-09-5369-FSE-000001 PhD Student Fellow Laboratório de Robótica e Sistemas de Engenharia, Portugal | Agência Regional para o Desenvolvimento da Investigação Tecnologia e Inovação, Portugal Concluded |
| 2014/03 - 2015/06 | Desenho e Avaliação de Métodos de Reabilitação Cognitiva baseados em Realidade Virtual para Acidentes Vasculares Cerebrais 2271 Research Fellow Universidade da Madeira Madeira Interactive Technologies Institute, Portugal | Agência Regional para o Desenvolvimento da Investigação, Tecnologia e Inovação, Portugal Concluded |

Contract

| | Designation | Funders |
|-------------------------|---|---|
| 2019/01/01 - 2019/12/31 | Laboratory for Robotics and Engineering Systems UID/EEA/50009/2019 Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, Portugal | Fundação para a Ciência e a Tecnologia, Portugal Concluded |

Universidade de Lisboa Centro de Ciência e Tecnologia do Ambiente e do Mar, Portugal
 Agência Regional para o Desenvolvimento da Investigação Tecnologia e Inovação, Portugal

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|-------------------|---|--|
| 2009/01 - 2009/03 | Sustainable Interaction with social Networks, context Awareness and Innovative Services CMU Portugal | Fundação para a Ciência e a Tecnologia, Portugal |
| | Scientific Initiation Fellow Universidade da Madeira Madeira Interactive Technologies Institute, Portugal | Concluded |

Other

Designation

Funders

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|----------------------|---|--|
| 2022/10/01 - Current | MACBIOIDI 2: Promoting the cohesion of Macaronesian regions through a common ICT platform for biomedical R & D & i MAC2/1.1b/352 | Ongoing |
| | Post-doc Agência Regional para o Desenvolvimento da Investigação, Tecnologia e Inovação, Portugal | |
| 2022/10 - Current | AViR: Adaptive Virtual Reality for coping with involuntary early pregnancy loss EXPL/CCI-INF/0298/2021 | Fundação para a Ciência e a Tecnologia, Portugal |
| | Co-Principal Investigator (Co-PI) Universidade da Madeira, Portugal | Ongoing |
| 2022 - Current | REMINDER: avaliação da viabilidade de um novo programa multidomínios de redução do risco de demência utilizando modelos de inteligência artificial de avaliação do engajamento 2022.02796.PTDC | |
| | Researcher | |
| 2019/01 - 2022/09 | Belief Revision applied to Neurorehabilitation Therapy (BRaNT) PTDC/CCI-COM/30990/2017 | Fundação para a Ciência e a Tecnologia, Portugal |
| | Post-doc Fellow Universidade da Madeira Madeira Interactive Technologies Institute, Portugal | Ongoing |
| 2012/10 - 2016/09 | RehabNet 303891 RehabNetFP7-PEOPLE-2011 | EU Framework Programme for Research and Innovation Marie Skłodowska-Curie Actions, Belgium |
| | PhD Student Fellow Universidade da Madeira Madeira Interactive Technologies Institute, Portugal | Concluded |

Outputs

Publications

- Book chapter
- 1 Agrela, Diana; Santos, Estefânia; Guzman, Khristina; Aveiro, Laura; Pestana, Paulo; Faria, Ana Lúcia. "Inclusão digital e envelhecimento ativo no século XXI". In *Olhares sobre o envelhecimento. Estudos interdisciplinares.*, edited by Joaquim Pinheiro, 75-82. Portugal, 2021.
Published · 10.34640/UNIVERSIDADEMADEIRA2021AGRELASANTOSGUZMAN
 - 2 Faria, Ana Lúcia. "O sono nos mais velhos". Portugal, 2021.
10.34640/UNIVERSIDADEMADEIRA2021AGUIARBELTRAOCRO
 - 3 Faria, Ana Lúcia. "Envelhecimento na terceira idade". Portugal, 2021.
10.34640/UNIVERSIDADEMADEIRA2021ENCARNACAOSANTOSGONZALES
 - 4 Faria, Ana Lúcia. "Envelhecer na perspetiva psicológica e social: promoção da saúde, qualidade de vida e estimulação cognitiva no idoso". Portugal, 2021.
10.34640/UNIVERSIDADEMADEIRA2021RAMOSGILSOUSA
 - 5 Garcês Costa, Diana Leonor; Chisik, Yoram; Faria, Ana Lúcia. "Hugvie as a Therapeutic Agent in the Improvement of Interaction Skills in Children with Developmental Disabilities: An Exploratory Study". In *Advances in Computer Entertainment Technology*, 117-127. Springer International Publishing, 2018.
Published · 10.1007/978-3-319-76270-8_9
-
- Conference abstract
- 1 Spínola, Mónica; Câmara, Joana; Luís Ferreira; Faria, Ana Lúcia; Badia, Sergi Bermudez i. "Impact of a customized cognitive stimulation program for individuals with dementia: a clinical study with the Musiquence platform". *São Miguel*, 2022.
Published
 - 2 Câmara, Joana; Paulino, Teresa; Spínola, Mónica; Faria, Ana Lúcia; Bermúdez i Badia, Sergi. "Cognitive training involving simulations of instrumental activities of daily living following acquired brain injury: a pilot study with the NeuroAlreh@b platform". *São Miguel*, 2022.
Published
 - 3 Câmara, Joana; Spínola, Mónica; Vilar, Maria Manuela Pereira; Faria, Ana Lúcia. Corresponding author: Câmara, Joana. "How can we address the challenges of remote cognitive training? A qualitative study on psychologists perspectives". Paper presented in *Congreso Internacional de Neurorehabilitación del Dano Cerebral*, 2022.
Published
 - 4 Câmara, Joana; Spínola, Mónica; Faria, Ana Lúcia; Eduardo Leopoldo Fermé; Sergi Bermúdez Badia; Manuela Vilar. "A step towards the development of an ADL-based cognitive training platform for stroke patients: involving neuropsychologists in the design process". Paper presented in *International Conference on Virtual Reality*, 2021.
Published
 - 5 Spínola, Mónica; FERREIRA, LUÍS; Câmara, Joana; Faria, Ana Lúcia; Bermúdez i Badia, Sergi; Luís Ferreira; Bermudez i Badia, Sergi. "Feasibility of an augmented reality customized cognitive stimulation program based on music and reminiscence therapy: impact of a 7-week intervention in individuals with

dementia". Paper presented in *IV Iberoamerican Congress of Neuropsychology*, 2021.

Published

- 6 Spínola, Mónica; Câmara, Joana; Faria, Ana Lúcia; Bermúdez i Badia, Sergi; Eduardo L. Fermé. "A step towards the design of an ADL-based cognitive rehabilitation platform: An overview of the implementation process". Paper presented in *13th International Conference on Virtual Reality 2021*, 2021.
- In press
- 7 Faria, Ana Lúcia; Pinho, Maria Salomé; Bermúdez i Badia, Sergi. "Cognitive rehabilitation through interactive technologies: a randomized controlled trial with stroke patients". Paper presented in *I International Congress of Neuropsychological Rehabilitation in Acquired Brain Injury, Porto*, 2015.
- Published

Conference paper

- 1 Rita Costa; S Lima; Mónica S Cameirão; Bermúdez i Badia, Sergi; Faria, Ana Lúcia; Sérgio Lima; Ana Lúcia Faria. Corresponding author: Rita Costa. "Cognitive training in Alcohol Use Disorder treatment: a randomized control clinical trial with personalized virtual reality and paper-and-pencil in an inpatient population". Paper presented in *14th International Conference on Disability, Virtual Reality & Associated Technologies (ICDVRAT), Ponta Delgada*, 2022.
- Published
- 2 Teresa Paulino; Câmara, Joana; Diogo Branco; Andrade Ferreira, Luis Duarte; Spínola, Mónica; Faria, Ana Lúcia; Mónica S Cameirão; Bermúdez i Badia, Sergi; Eduardo L. Fermé. Corresponding author: Teresa Paulino. "Usability evaluation of cognitive training with the NeuroAlreh@b platform: preliminary results of an ongoing pilot study". Paper presented in *14th International Conference on Disability, Virtual Reality & Associated Technologies (ICDVRAT), Ponta Delgada*, 2022.
- Published
- 3 Faria, Ana Lúcia; Nóbrega, Mónica; Badia, Sergi Bermudez i; Mónica Nóbrega; Bermúdez i Badia, Sergi. "Immersive virtual reality for cognitive mapping in awake brain surgery: a scoping review.". Paper presented in *International Conference for Virtual Rehabilitation 2022, Rotterdam*, 2022.
- Published · <https://doi.org/10.17605/OSF.IO/B85X9>
- 4 Câmara, Joana; Paulino, Teresa; Branco, Diogo; Mónica S Cameirão; Faria, Ana Lúcia; FERREIRA, LUÍS; Moreira, André; et al. "Treino cognitivo informatizado baseado em simulações de atividades de vida diária na fase crónica do AVC: um estudo de caso". Paper presented in *16º Congresso Português do AVC*, 2022.
- 5 Faria, Ana Lúcia; Jorge Latorre; Cameirao, Monica S; Bermúdez i Badia, Sergi; Roberto Llorens. "Ecological validity of virtual reality-based technologies for assessment and rehabilitation of acquired brain injury: a systematic literature review". Paper presented in *International Conference on Virtual Rehabilitation 2021, Philadelphia*, 2021.
- Published
- 6 Câmara, Joana; Spínola, Mónica; Vilar, Maria Manuela Pereira; Faria, Ana Lúcia; Bermúdez i Badia, Sergi; Fermé, Eduardo; Paulino, Teresa; Branco, Diogo; Mónica S Cameirão. "A step towards the design of an ADL-based cognitive training platform: involving neuropsychologists in the design process". Paper presented in *International Conference on Virtual Rehabilitation 2021*, 2021.
- [10.34944/dspace/7297](https://doi.org/10.34944/dspace/7297)

- 7 Faria, Ana Lúcia; Faria, Ana Lucia; Paulino, Teresa; Badia, Sergi Bermudez i. "Comparing adaptive cognitive training in virtual reality and paper-and-pencil in a sample of stroke patients". Paper presented in *2019 International Conference on Virtual Rehabilitation (ICVR)*, 2019.
Published · 10.1109/ICVR46560.2019.8994746
- 8 Faria, Ana Lúcia; Paulino, Teresa; Bermúdez i Badia, Sergi. "Reh@City v2. 0: a comprehensive virtual reality cognitive training system based on personalized and adaptive simulations of activities of daily living". Paper presented in *Experiment@ International Conference, Funchal*, 2019.
Published
- 9 Faria, Ana Lúcia; Bermúdez i Badia, Sergi. "Personalizing paper-and-pencil training for cognitive rehabilitation". Paper presented in *International Conference on Applied Psychology and Human Behavior, Funchal*, 2018.
Published
- 10 Faria, Ana Lúcia; Joana Couras; Mónica Cameirão; Teresa Paulino; Gabriel Martins da Costa; Sergi Bermúdez i Badia. "Impact of combined cognitive and motor rehabilitation in a virtual reality task: an on-going longitudinal study in the chronic phase of stroke". Paper presented in *ICDVRAT, Los Angeles*, 2016.
Published
- 11 Faria, Ana Lúcia; Pinho, Maria Salomé; Bermúdez i Badia, Sergi. "Do papel-e-lápis à realidade virtual: uma nova abordagem para reabilitação cognitiva personalizada". Paper presented in *Congresso Nacional de Psicologia da Saúde, Lisboa*, 2016.
Published · <http://doi.org/10.13140/RG.2.1.3627.5284>
- 12 Faria, Ana Lúcia; Bermúdez i Badia, Sergi. "Development and evaluation of a web-based cognitive task generator for personalized cognitive training". Paper presented in *REHAB 2015, Lisbon, Portugal*, 2015.
Published · 10.1145/2838944.2838945
- 13 Faria, Ana Lúcia; Cameirão, Mónica S.; Paulino, Teresa; Bermúdez i Badia, Sergi. "The benefits of emotional stimuli in a virtual reality cognitive and motor rehabilitation task: Assessing the impact of positive, negative and neutral stimuli with stroke patients". Paper presented in *International Conference on Virtual Rehabilitation, Valência*, 2015.
Published · 10.1109/icvr.2015.7358584
- 14 Vourvopoulos, Athanasios; Faria, Ana Lúcia; Ponnamm, Kushal; Bermúdez i Badia, Sergi. "RehabCity: design and validation of a cognitive assessment and rehabilitation tool through gamified simulations of activities of daily living". Paper presented in *Advances in Computer Entertainment, Funchal, Portugal*, 2014.
Published · 10.1145/2663806.2663852
- 15 Faria, Ana Lúcia; Vourvopoulos, Athanasios; Cameirão, Mónica S.; Fernandes, Jean Claude; Bermúdez i Badia, Sergi. "An integrative virtual reality cognitive-motor intervention approach in stroke rehabilitation: a pilot study". Paper presented in *10th International Conference on Disability, Virtual Reality and Associated Technologies (ICDVRAT 2014), Gothenburg*, 2014.
Published · 10.13140/RG.2.1.4967.8887
- 16 Faria, Ana Lúcia; Vourvopoulos, Athanasios; Cameirão, Mónica S.; Bermúdez i Badia, Sergi. "Quantifying Cognitive-Motor Interference in Virtual Reality Training after Stroke: the Role of Interfaces". Paper presented in *10th International Conference on Disability, Virtual Reality and Associated Technologies (ICDVRAT 2014), Gothenburg*, 2014.
Published · 10.13140/RG.2.1.4599.4402

- 17 Vourvopoulos, Athanasios; Faria, Ana Lúcia; Cameirão, Mónica S.; Bermúdez i Badia, Sergi. "RehabNet: A distributed architecture for motor and cognitive neuro-rehabilitation". Paper presented in *International Conference on e-Health Networking, Applications and Services, Lisbon, Portugal, 2013*.
Published · 10.1109/HealthCom.2013.6720719

Conference poster

- 1 Faria, Ana Lúcia; André Freitas; Nóbrega, Mónica; Sergi Bermúdez Badia. "Development of virtual reality-based tasks for cognitive and emotion mapping during awake brain surgery for tumor resection: the CogMap system". Paper presented in *World Conference on NeuroRehabilitation, 2022*.
- 2 Câmara, Joana; Paulino, Teresa; Spínola, Mónica; Branco, Diogo; Mónica S Cameirão; Faria, Ana Lúcia; Luís Ferreira; et al. Corresponding author: Câmara, Joana. "Computerized cognitive training based on ADLs in the chronic phase of stroke: a case study with the NeuroAlreh@b platform". Paper presented in *Congreso Internacional de Neurorehabilitación del Dano Cerebral, 2022*.
- 3 Silva, Ana Rita; Pinho, Maria Salomé; Lima, Margarida; Faria, Ana Lúcia; Câmara, Joana; Afonso, Rosa Marina; Baptista, Catarina Lopes Belo; Cerejeira, Joaquim; Luís Macedo. "Validation trial of a multicomponent neuropsychological interventions for individuals at-risk of dementia: the REMINDER program". Paper presented in *MIA Ageing Spring School 2022, 2022*.
- 4 Câmara, Joana; Spínola, Mónica; Faria, Ana Lúcia; Vilar, Maria Manuela Pereira. Corresponding author: Câmara, Joana. "Cognitive rehabilitation of acquired brain injury during the COVID-19 pandemic: a survey of Portuguese Psychologists; practices and perspectives". Paper presented in *IV Congreso Iberoamericano de Neuropsicología, 2021*.
- 5 Câmara, Joana; Manuela, Vilar; Fermé, Eduardo; Faria, Ana Lúcia; Bermúdez i Badia, Sergi. Corresponding author: Câmara, Joana. "Efficacy of Kinect-based versus Tablet-based cognitive training: A pilot study with chronic psychiatric patients". Paper presented in *IV Congreso Iberoamericano de Neuropsicología, 2021*.
- 6 Joana Câmara; Rute Ferreira; Liliana Teixeira; Faria, Ana Lúcia; Sergi Bermúdez. "Efficacy of Cognitive Training through ecologically valid virtual reality-based Simulations of Activities of Daily Living a Randomized Controlled Trial with Psychiatric patients". Paper presented in *34ª Reunião do Grupo de Estudos de Envelhecimento Cerebral e Demência, 2020*.
- 7 Costa, Rita; Alves, Cátia; Câmara, Mariana; Lima, Sérgio; Faria, Ana Lúcia; Mónica S Cameirão; Bermúdez i Badia, Sergi; Rita Costa; Sergi Bermúdez Badia. "Cognitive rehabilitation through virtual reality and paper-and-pencil interventions as complementary tools in addictive behaviors treatment: A randomized controlled trial with Alcohol Use Disorder participants". Paper presented in *II Clinical Summit, 2019*.
- 8 Mónica Spínola; Joana Câmara; Luís Andrade Ferreira; Faria, Ana Lúcia. "Developing a Cognitive Stimulation Program with Individuals with Dementia, a Participatory Design Approach". Paper presented in *II Lusíadas Clinical Summit - Lusíadas Saúde, 2019*.

- 9 Joana Câmara; Faria, Ana Lúcia. "Cognitive rehabilitation of stroke patients through virtual reality-based activities of daily living simulations: involving patients and neuropsychologists in the design process". Paper presented in *Lusíadas II Clinical Summit*, 2019.
- 10 Mónica Spínola; Joana Câmara; Luís Andrade Ferreira; Faria, Ana Lúcia. "Participação ativa de pessoas com demência na criação de um programa de estimulação cognitiva personalizado". Paper presented in *9as Jornadas de Saúde Mental e Psiquiatria da Casa de Saúde São João de Deus*, 2019.
- 11 Faria, Ana Lúcia; Pinho, Maria Salomé; Badia, Sergi Bermúdez i; Bermúdez i Badia, Sergi. "Personalized virtual reality simulations of activities of daily living for cognitive rehabilitation: a study with stroke patients". Paper presented in *European Stroke Organisation Conference*, 2019.
- 12 Faria, Ana Lúcia; Pinho, Maria Salomé; Bermúdez i Badia, Sergi. "Personalizing cognitive rehabilitation through a web-based Task Generator: an evaluation study with stroke patients.". Paper presented in *International Neuropsychological Society 2016 Mid-Year Meeting*, 2016.

Journal article

- 1 Faria, Ana Lúcia; Almeida, Yuri; Branco, Diogo; Câmara, Joana; Cameirão, Mónica; Ferreira, Luis; Moreira, André; et al. "NeuroAlreh@b: an artificial intelligence-based methodology for personalized and adaptive neurorehabilitation". *Frontiers in Neurology* (2024): <https://www.frontiersin.org/articles/10.3389/fneur.2023.1258323>.
10.3389/fneur.2023.1258323
- 2 Faria, Ana Lúcia; Latorre, Jorge; Silva Cameirão, Mónica; Bermúdez i Badia, Sergi; Llorens, Roberto. "Ecologically valid virtual reality-based technologies for assessment and rehabilitation of acquired brain injury: a systematic review". *Frontiers in Psychology* 14 (2023): <http://dx.doi.org/10.3389/fpsyg.2023.1233346>.
Published · Open access · 10.3389/fpsyg.2023.1233346
- 3 Teresa Catarina Paiva; Luísa Soares; Ana Lúcia Faria. "Depression in Elderly People". *Encyclopedia* (2023): <https://doi.org/10.3390/encyclopedia3020048>.
10.3390/encyclopedia3020048
- 4 Cristina Alves; Luísa Soares; Ana Lúcia Faria. "Gravidez e depressão pós-parto (DPP): uma revisão não sistemática sobre o estado da arte do conhecimento da DPP". *Revista Portuguesa de Investigação Comportamental e Social* (2023): <https://doi.org/10.31211/rpics.2023.9.1.293>.
10.31211/rpics.2023.9.1.293
- 5 Petra José Pereira Santos; Luísa Soares; Ana Lúcia Faria. "Narrative Therapy as an innovative approach to Anorexia Nervosa treatment: a literature review". *Journal of Poetry Therapy* (2023): <https://doi.org/10.1080/08893675.2023.2189532>.
10.1080/08893675.2023.2189532
- 6 Ana Henriques Pereira; Luísa Soares; Ana Lúcia Faria. "Stress in Informal Caregivers of Elderly People: a Non-Systematic Review". *Diversitas Journal* 8 2 (2023): 1362-1372. <http://dx.doi.org/10.48017/dj.v8i2.2580>.
10.48017/dj.v8i2.2580

- 7 Alves, Cristina; Soares, Luísa; Faria, Ana Lúcia. "Pregnancy and Postpartum Depression (PPD): a non-systematic review assessing the current state of knowledge on PPD". (2023): <http://repositorio.ismt.pt/jspui/handle/123456789/1547>.
<https://doi.org/10.31211/rpics.2023.9.1.293>
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- Thesis / Dissertation
- 1 Faria, Ana Lúcia. "Development and clinical validation of interactive technologies for cognitive rehabilitation of stroke patients". PhD, Universidade de Coimbra Faculdade de Psicologia e de Ciências da Educação, 2020. <https://provas-academicas.sib.uc.pt/handle/123456789/49730>.

Activities

Oral presentation

| | Presentation title | Event name Host (Event location) |
|------------|---|-------------------------------------|
| 2023/05/31 | Rehab&Play: Reabilitação cognitiva do Acidente Vascular Cerebral através de tecnologias interativas | ADITGAMES (Lisboa , Portugal) |
| 2023/05/31 | Ponte da Memória, um jogo que estimula a atenção, perceção e memória! | ADITGAMES (Lisboa, Portugal) |
| 2023/05/31 | CrossMind: Promoção da saúde física e mental de adultos idosos através de tecnologias interativas | ADITGAMES (Portugal) |

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| 2021/11/19 | Reabilitação neuropsicológica com validade ecológica através de tecnologias baseadas em realidade virtual | Centro Hospitalar de Lisboa Ocidental (Lisboa, Portugal) |
| 2019/05 | Novas Tecnologias na Saúde Mental | IV Jornadas Hospitalares de Saúde Mental – 95 anos a inovar no cuidar Casa de Saúde Câmara Pestana (Funchal, Portugal) |
| 2018/10 | Utilização da realidade virtual como ferramenta complementar no tratamento dos comportamentos aditivos: da reabilitação cognitiva à prevenção das recaídas | 3ª Convenção de comportamentos aditivos e dependências da Madeira Casa de Saúde S. João de Deus (Funchal, Portugal) |
| 2018/02 | A psicologia ao serviço das pessoas: contextos e desafios na Madeira | Congresso regional dos psicólogos da Madeira Ordem dos Psicólogos Portugueses (Funchal, Portugal) |
| 2016/09 | Demonstração de programa computadorizado para estimulação e reabilitação cognitiva | A multidisciplinidade na intervenção em pessoas com Doença de Alzheimer Alzheimer Portugal (Funchal, Portugal) |
| 2016/09 | Desenvolvimento e validação clínica de tecnologias interativas para a reabilitação cognitiva do acidente vascular cerebral | 3º Congresso da Ordem dos Psicólogos Portugueses Ordem dos Psicólogos Portugueses (Porto, Portugal) |
| 2015/11 | Integrating computational modelling and participatory design strategies in a novel framework for the personalization of cognitive rehabilitation: a case study bridging paper-and-pencil and virtual reality tasks for stroke rehabilitation | IV Colóquio Olhares sobre o Envelhecimento Centro de Desenvolvimento Académico da UMa (Funchal, Portugal) |
| 2013 | A Utilização de Tecnologias Interactivas na Reabilitação Cognitiva | Jornadas Transdisciplinares 2013 Núcleo de Estudantes de Psicologia, Ciências da Educação e de Serviço Social (Coimbra, Portugal) |
| 2013 | Terapias Cognitivo-comportamentais nas Adições | Jornadas de Enfermagem de Saúde Mental Casa de Saúde S. João de Deus (Funchal, Portugal) |
| 2012/10 | Desenho e Avaliação de Métodos de Reabilitação Cognitiva Baseados em Realidade Virtual para Casos de Acidentes Vasculares Cerebrais (AVC's) | Colóquio Olhares sobre o Envelhecimento Centro de Desenvolvimento Académico da UMa (Funchal, Portugal) |

| | | |
|------|---|---|
| 2009 | Existe memória episódica preservada para além do défice característico do Defeito Cognitivo Ligeiro (DCL-amnésico)? | IV Encontro Internacional Psicogeriátrico de Coimbra 2009 Associação Portuguesa de Gerontopsiquiatria e Hospitais da Universidade de Coimbra (Coimbra, Portugal) |
|------|---|---|

Supervision

| | Thesis Title Role | Degree Subject (Type) Institution / Organization |
|----------------------|---|---|
| 2023/09/15 - Current | CRESCER app: parenting strategies for emotion regulation, disruptive behavior management and academic preparation Co-supervisor of João Loreto | Mestrado em Engenharia Informática (Master) Universidade da Madeira Centro de Competência de Ciências Exatas e da Engenharia, Portugal |
| 2023/09/15 - Current | Intervenção Multidimensional para a Promoção de Saúde Psicológica e Bem-Estar na Idade Adulta Avançada Supervisor of Ana Jacinta Pereira | Mestrado em Psicologia Clínica, da Saúde e do Bem-Estar (Master) Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |
| 2023/09/15 - Current | Tecnologias interativas baseadas em música e reminiscência para estimulação cognitiva e promoção da qualidade de vida em pessoas portadoras de demência Supervisor of Paulo Brando Nóbrega Fernandes | Mestrado em Psicologia Clínica, da Saúde e do Bem-Estar (Master) Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |
| 2023/09/15 - Current | Avaliação da cognição social através da realidade virtual na lesão cerebral adquirida Supervisor of Raquel Susana Sá Pereira de Vasconcelos | Mestrado em Psicologia Clínica, da Saúde e do Bem-Estar (Master) Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |
| 2023/09/15 - Current | Análise de narrativas e tecnologia: Impacto no processo de luto de mães que vivenciaram uma perda gestacional precoce Co-supervisor of Teresa Catarina de Paiva | Mestrado em Psicologia Clínica, da Saúde e do Bem-Estar (Master) Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |
| 2022/09 - Current | Virtual reality-based tasks for cognitive mapping during awake brain surgery for tumor resection Supervisor | Mestrado em Neuropsicologia Clínica: Avaliação e Reabilitação (Master) Universidade de Coimbra Faculdade de Psicologia e de Ciências da Educação, Portugal |
| 2022/09 - Current | Task Generator 2.0: leveraging personalized paper and pencil cognitive training to a tablet approach Co-supervisor of Tomás Marcos | Mestrado em Engenharia Informática (Master) Universidade da Madeira Centro de Competência de Ciências Exatas e da |

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|-------------------|---|--|
| 2022/02 - Current | Virtual reality paradigms for executive functions mapping in tumor resection through awake craniotomy Co-supervisor of André Freitas | Engenharia Informática (Degree) Universidade da Madeira, Portugal |
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Event organisation

| | Event name Type of event (Role) | Institution / Organization |
|----------------------|---|--|
| 2016/09/10 - Current | A Multidisciplinarietà na Intervenção em Pessoas com Doença de Alzheimer (2016/09/10) Conference (Member of the Organising Committee) | Alzheimer Portugal - delegação da Madeira , Portugal |
| 2017/06 - 2017/06 | 9th International Conference on Intelligent Technologies for Interactive Entertainment (2017/06 - 2017/06) Conference (Member of the Organising Committee) | |
| 2014/11 - 2014/11 | Advances in Computer Entertainment 2014 (2014/11 - 2014/11) Conference (Member of the Organising Committee) | |

Event participation

| | Activity description Type of event | Event name Institution / Organization |
|----------------------------|--|--|
| 2023/09/04 - Current | Para assinalar o Dia Nacional do Psicólogo, a Ordem dos Psicólogos Portugueses promoveu um encontro em torno do tema "O factor humano na transição digital". 18h00 - Talk - Apps de Saúde Mental e intervenção a distância Com comentários de Ana Lúcia Faria e Mariana Reis Barbosa João Salgado - Psicólogo e Vice-Reitor da Universidade da Maia Other | O factor humano na transição digital Ordem dos Psicólogos Portugueses, Portugal |
| 2022/09/07 - 2022/09/07 | Workshop "Desenvolvimento de avaliações e intervenções neuropsicológicas com validade ecológica através de tecnologias baseadas em realidade virtual" with the participation of Ana Lúcia Faria, Gonçalo | Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |

Barradas, Fábio Pereira e Diogo Branco.

Workshop

2022/07/25 -
2022/07/25

Workshop "Patients Engagement and Technologies for Rehabilitation and Prosthetics" with the participation of Giacinto Barresi, Matteo Laffranchi, Giampaolo Brichetto, Strahinja Dosen, Lorenzo Masia, Ana Lúcia Faria, Jacopo Zenzeri

RehabWeek 2022

Workshop

2013/07/17 - 2013/07/19

2nd HCC Summer School

2nd HCC Summer School

Developed project: Discussion and prototyping of an EEG based application focused in the consumer market

IRCAM, France

Other

Jury of academic degree

Theme
RoleCandidate name (Type of degree)
Institution / Organization

2024/02

Altered Reality: The Role of Immersive Technologies in Visual Disabilities Rehabilitators Training.
(Thesis) Arguer

Mattia Barbieri (PhD)

Università degli Studi di Genova
Dipartimento di Informatica
Bioingegneria Robotica e Ingegneria dei Sistemi, Italy

2023/11/29

Análise da Componente Disposicional da Robustez Mental: Influência dos cinco grandes fatores de personalidade e dos seus sub-domínios
(Thesis) Main arguer

Ana Rubina Fernandes (Master)

Universidade da Madeira Faculdade de Artes e Humanidades, Portugal

Association member

Society Organization

Role

2021/02/01 - Current

Sociedade Portuguesa de Neuropsicologia

Member

2021 - Current

International Society for Virtual Rehabilitation

Regular Member

2010/03 - Current

Ordem dos Psicólogos

Membro efectivo

Committee member

Activity description
Role

Institution / Organization

2023/09/01 - Current

Master in Clinical Psychology, Health and Wellbeing course board

Universidade da Madeira Faculdade de Artes e Humanidades, Portugal

Member

| | | |
|----------------------|---------------------------------------|--|
| 2023/07/01 - Current | Psychological Tests Library Member | Universidade da Madeira Faculdade de Artes e Humanidades, Portugal |
|----------------------|---------------------------------------|--|

Conference scientific committee

| | Conference title | Conference host |
|-------------------------|--|---|
| 2023/01 - 2023/08 | 11th International Conference on Serious Games and Applications for Health (SEGAH) | Kostas Karpouzis, National Technical University of Athens, Greece |
| 2023/01 - 2023/07 | World Conference on NeuroRehabilitation 2023 | Gerard Fluet, Danielle Levac, Montreal, Canada |
| 2019/07/21 - 2019/07/24 | International Conference on Virtual Rehabilitation 2019 | Tel Aviv, Israel |
| 2019/06/12 - 2019/06/14 | Experiment@ International Conference 2019 (exp.at'19) | Funchal |

Course / Discipline taught

| | Academic session | Degree Subject (Type) | Institution / Organization |
|-------------------------|---|---|--------------------------------------|
| 2021/02 - 2021/05 | Neuropsicopatologia | Curso de Especialização em Enfermagem de Saúde Mental e Psiquiatria (Especialização pós-licenciatura) | Universidade da Madeira, Portugal |
| 2020/10/01 - 2021/02/03 | Qualidade de Vida e Bem-Estar | Curso técnico profissional | Universidade da Madeira, Portugal |
| 2011/01 - 2014/01 | Curso de Neuropsicologia do Adulto e do Idoso: avaliação e intervenção. | (Diploma de especialização) | Dar+ Psicologia e Formação, Portugal |
| 2011/02 - 2013/02 | Terapias Cognitivo-Comportamentais. | Enfermagem em Saúde Mental e Psiquiatria (Especialização pós-licenciatura) | Universidade da Madeira, Portugal |
| 2010/05 - 2010/06 | Psicobiologia do Envelhecimento. | (Mestrado) | Universidade da Madeira, Portugal |

Interview (newspaper / magazine)

| | Activity description | Newspaper / Forum |
|------------|---------------------------------------|---------------------|
| 2014/08/04 | Consolas de jogos e realidade virtual | Journal de Notícias |

ajudam doentes a recuperar de AVC

Interview (tv / radio show)

| | Program | Theme |
|----------------------|--|--|
| 2022/10/13 - Current | UMa Investiga - A Universidade da Madeira é o Centro de Investigação por excelência na Região. São muitos os trabalhos ali desenvolvidos e que nem sempre têm a divulgação merecida. Neste programa pretende-se dar a conhecer o trabalho realizado por investigadores e alunos, bem como a sua envolvimento com o tecido económico e social da RAM. | Madeira NLINCS |
| 2020/11/30 - Current | Macaronight 2020 | Noite dos Investigadores da Macaronésia |
| 2020/02/01 - Current | Madeira Innovation Hub | Health Innovation |
| 2014/07/31 - Current | Olhares indiscretos | PhD project |
| 2013/09/27 - Current | Interesse Público | Interactive systems for post stroke cognitive and motor rehabilitation |
| 2012/10/13 - Current | Notícias RTP Madeira | Cognitive rehabilitation after stroke in Madeira |

Journal scientific committee

| | Journal title (ISSN) | Publisher |
|----------------------|---|---------------|
| 2024 - Current | International Journal of Clinical and Health Psychology (2174-0852) | Elsevier |
| 2021/10/12 - Current | Frontiers Special Issue in Human-Centered Solutions and Synergies across Robotic and Digital Systems for Rehabilitation | Frontiers |
| 2021 - Current | Journal of Rehabilitation and Assistive Technologies Engineering | SAGE journals |

Mentoring / Tutoring

| | Topic | Student name |
|----------------------------|--|------------------------------|
| 2020/09 - Current | Development and Clinical Validation of an Adaptive Cognitive Training Virtual Tool for Stroke Patients | Joana Daniela Freitas Câmara |
| 2023/05/15 - 2024/05/14 | Tarefas de avaliação e reabilitação neuropsicológica baseadas em tecnologias | Diogo Branco |

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|-------------------|--|-----------------------|
| 2015 - 2021 | Musiquence - Design, Implementation and Validation of a Customizable Music and Reminiscence Cognitive Stimulation Program for People with Dementia | Luís Andrade Ferreira |
| 2019/03 - 2020/02 | Clinical validation of Musiquence, a virtual reality, reminiscence and music therapy based tool for cognitive stimulation | Mónica Spínola |
| 2016/04 - 2017/04 | Portuguese adaptation of the Patient Reported Evaluation of Cognitive State | Joana Alegria |
| 2014/09 - 2015/07 | Mestrado em Psicologia da Educação | Andreia Andrade |

Scientific expedition

| | Activity description | Institution / Organization |
|-------------------------|--|---|
| 2023/11/08 - 2023/11/14 | Erasmus+ Training no Instituto Italiano de Tecnologia (Génova) | Istituto Italiano di Tecnologia, Italy |
| 2021/10/18 - 2021/10/21 | <p>Visit to the CHU Angers Neurosurgery Service (France) to attend two Awake Brain Surgeries (ABS) procedures in order to learn the most with their methodologies:</p> <p>1) VR-based with Head Mounted Display: Patient with 52 years old with a tumor located in the frontal lobe will be assessed with the VR task called TANGO, for assessing executive functions, social cognition and visuospatial search.</p> <p>2) Non-VR-based: Patient with 16 years old with a tumor located in the parietal lobe will be assessed with language tasks.</p> | Centre Hospitalier Universitaire d'Angers Service de Neurochirurgie, France |

Distinctions

Award

| | |
|------|---|
| 2022 | <p>Runner-up of the Early Career Award</p> <p>International Society for Virtual Rehabilitation, United States</p> |
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Other distinction

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| 2019 | <p>Poster with Honorable Mention</p> <p>Grupo Lusíadas Saúde, Portugal</p> |
|------|--|

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|------|---|
| 2018 | Best Student Paper International Conference on Applied Psychology and Human Behavior, Portugal |
| 2016 | Best Student Paper Commendation 11th International Conference on Disability, Virtual Reality and Associated Technologies, United States |
| 2015 | Best Communication Prize I International Congress of Neuropsychological Rehabilitation in Acquired Brain Injury, Portugal |
| 2014 | Best Student Paper Commendation 10th International Conference in Disability, Virtual Reality & Associated Technologies, Portugal |
| 2014 | Bronze Paper Award Advances on Computer Entertainment, Portugal |