

## Curriculum vitae J. Artur Serrano

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Affiliation: Department of Neuromedicine and Movement Science, Faculty of Medicine and Health Sciences, NTNU/Norwegian University of Science and Technology.

Research results in *CRISTIN* Current Research Information System in Norway: total 155 (01.10.2025)

### EDUCATION

- 1997      PhD: Software Engineering  
            Computing Science Department, University of Glasgow, Scotland
- 1993      MSc: Information Systems  
            IST, Lisbon Technical University, Portugal
- 1989      Post-graduation: Biomedical Engineering  
            INESC, FUNDETEC, Portugal
- 1989      MSc: Electronics and Computers Engineering, specialization in Electronics Instrumentation Engineering, Porto University, Portugal

### WORK EXPERIENCE

- 2016-present    Professor in Care Technology and Well-being  
                    Faculty of Medicine, Norwegian University of Science and Technology, Norway
- 2016-2020      Adjunct Professor  
                    Norwegian Centre for eHealth Research, University Hospital of North Norway
- 2016-2016      Chief Researcher  
                    Norwegian Centre for eHealth Research, Norway
- 2012-2016      Associate Professor  
                    Faculty of Health Sciences, Department of Clinical Medicine, UiT The Arctic University of Norway
- 2014-2015      Chief Researcher  
                    Norwegian Centre for Integrated Care and Telemedicine (NST), Norway
- 2009-2013      Full-time Researcher  
                    Norwegian Centre for Integrated Care and Telemedicine (NST), Norway
- 2010-2013      Leader of Research Unit  
                    Home Care and Personalised Health (HOPE), Norwegian Centre for Integrated Care and Telemedicine (NST), Norway
- 2011-2011      Auxiliary Member of Staff  
                    Kroken Elderly Care Home, Norway
- 2000-2010      Auxiliary Professor  
                    Telecommunications and Informatics Department, Aveiro University, Portugal
- 2006-2009      Part Time Researcher  
                    Norwegian Centre for Telemedicine (NST), Norway
- 2007-2008      Lecturer  
                    Department of Computer Science, Faculty of Science, University of Tromsø, Norway
- 2006-2007      Associate Professor  
                    Faculty of Medicine, University of Tromsø, Norway

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|-----------|-----------------------------------------------------------------------------------------------------------------------|
| 1997-2007 | Researcher<br>Institute of Electronics Engineering and Telematics of Aveiro (IEETA), Portugal                         |
| 2006-2006 | Guest Professor<br>Department of Computer Science, University of Tromsø, Norway                                       |
| 2004-2006 | Director of Professional Degrees<br>Aveiro Norte School, Aveiro University, Portugal                                  |
| 2003-2004 | Guest Professor<br>Norwegian Centre for Telemedicine (NST), Norway                                                    |
| 1998-2001 | Lecturer<br>Faculty of Engineering, Porto University, Portugal                                                        |
| 1997-2000 | Invited Auxiliary Professor<br>Electronics and Telecommunications Department of the Aveiro University, Portugal       |
| 1994-1996 | Lecturing Assistant in the Information Technology M.Sc.<br>Computing Science Department, Glasgow University, Scotland |

## PROJECTS

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|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2020-2026 | WP Leader in NTNU Social Research - Workers in transition through automation, digitalization and robotization of work (AUTOWORK) – NFR VAM                                                                                                                                                                                                  |
| 2019-2025 | Principal Investigator and Project Coordinator H2020 MSCA-RISE “LIFEBOTS – Creating a new reality of care and welfare through the inclusion of social robots” (H2020-EU1.3.3. grant 842047).                                                                                                                                                |
| 2020-2022 | Project Coordinator in “LEE - LIFEBOTS-Exchange Extended” – funded by the Norwegian Research Council (NFR).                                                                                                                                                                                                                                 |
| 2018-2019 | Principal Investigator and Project Coordinator “My Robot Friend” (InnoMed Health) funded by Norwegian health authority (Helse Midt-Norge).                                                                                                                                                                                                  |
| 2017-2019 | Principal Investigator and Project Coordinator of "SENSE-GARDEN - Virtual and memory adaptable spaces creating stimuli for the senses in ageing people with dementia", funded by the EU Active and Assisted Living (AAL) programme, Call 2016 – Living Well With Dementia.                                                                  |
| 2017-2019 | Principal Investigator in Norway of “eWare – Early Warning Accompanies Robotics Excellence”, PI in Norway, funded by the EU Active and Assisted Living (AAL) programme, Call 2016 – Living Well With Dementia.                                                                                                                              |
| 2016-2019 | Norwegian coordinator of EU funded project "BaltSe@nior - Innovative solutions to support BSR enterprises in product development aimed at raising comfort and safety of seniors home living", Interreg Baltic Sea Region Programme 2014-2020.                                                                                               |
| 2013-2016 | Principal Investigator in “VictoryaHome: Victorya – a robot for integrated care@home and peace of mind of carers”, funded by Ambient Assisted Living Joint Programme (AAL JP) – ICT for ageing well, Call 5 (aal-europe.eu) [ <a href="http://www.victoryahome.eu">http://www.victoryahome.eu</a> ]                                         |
| 2011-2014 | Norwegian Principal investigator in "SENSE-PARK Supporting and Empowering Parkinson patients in their home environment using a novel sensory information system that monitors daily-life-relevant parameters of Parkinson disease and their change ", funded by EU 7th Framework Programme under grant agreement No. INFOS-ICT-2011-288557. |
| 2011-2013 | Co-PI in USER FORUM 3.0 - Continuous feedback from users on the design and implementation of e-health services ( <i>Brukerforum 3.0 - Kontinuerlig brukervedvirkning i</i>                                                                                                                                                                  |

*design og implementeringsprosesser for nye e-helsetjenester*), funded by Ekstrastiftelsen (Stiftelsen Dam).

- 2011-2013 Principal investigator in “CHF Home Telemonitoring: A home telemonitoring service for chronic heart failure patients on trial”, funded by Norwegian health authority (Helse Nord).
- 2011-2013 Principal investigator in “Virtual Clinic for Sexually Transmitted Diseases: Use of Avatars and Social Networks in Public Health Interventions”, funded by the Norwegian Research Council (NFR).
- 2011-2013 Principal investigator in “Telecare CBT for Morbid Obesity: A clinical trial of a solution for telecare enhanced Cognitive Behavioural Therapy for the treatment of obesity”, funded by Norwegian health authority (Helse Nord).

## **MAJOR COLLABORATIONS**

- 2019-present Leader and co-founder of the ImRo-Lab (Immersive Technology and Robotics laboratory), an interdisciplinary collaboration between the Department of Neuromedicine and Movement Science and the Department of Interdisciplinary Studies of Culture (KULT).
- 2019-2020 Coordinator of the collaboration between NTNU /Norwegian University of Science and Technology and the Norwegian Labour and Welfare Administration (NAV) in the focus area of care technology and well-being (*velferdsteknologi*).
- 2009-2017 Coordinator of collaboration program between NST - Norwegian Centre for Telemedicine, University Hospital of North Norway and APuHC - Asia-Pacific Ubiquitous Healthcare Research Centre, The University of New South Wales, Australia.

## **PRIZES/AWARDS, INVENTIONS, BUSINESS INNOVATION AND APPLIED RESEARCH:**

Main inventor in the Disclosure of Invention (DOFI) for NTNU /Norwegian University of Science and Technology, with the title “SenseReflection - knowledge through measuring emotion”, in 07.02.2022

Main inventor in the Disclosure of Invention (DOFI) for UiT The Arctic University of Norway and UNN the University Hospital of North Norway, with the title “SerenityButton: a mobile app that gives peace of mind and connectedness to family, friends and professional caregivers of older adults, promoting their wellbeing, independence, health and safety”, in 01.03.2016

Main inventor in the Disclosure of Invention (DOFI) for UiT The Arctic University of Norway and UNN the University Hospital of North Norway, with the title “Virtual Clinic for Sexually Transmitted Diseases: Use of Avatars and Social Networks in Public Health Interventions”, in 06.06.2013

Winner of AAL Award 2015 (EU Horizon 2020 Research Programme)

Initiated four working clinical centres for the immersive treatment of dementia (SENSE-GARDEN) in Romania, Belgium, Portugal and Norway.