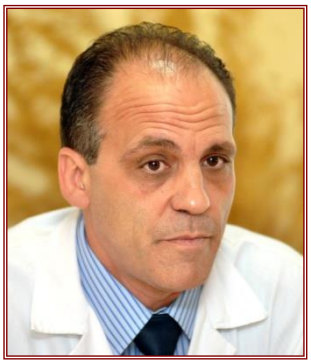
Curriculum Vitae

Angel Gil-Agudo

amgila@sescam.jccm.es



PROFILE

1. Main Research Interests and Current Projects

Angel Gil-Agudo completed medical training at the University Complutense of Madrid and specialisation in Physical Medicine and Rehabilitation (PM&R) at Ramón and Cajal Hospital, Madrid (1993). Researcher from 1994 to 1996 in Institute of Biomechanics in Valencia (IBV). After more than fifteen years working in different Spanish Hospitals as a clinician in PM&R departments he returned to research activities. He obtained his Ph.D degree from University Complutense of Madrid (Spain) working about manual wheelchair propulsion ergonomics in spinal cord injury patients (2009). He currently serves as Director of the Biomechanics and Technical Aids Department and Head of Physical Medicine and Rehabilitation Department, at National Hospital for Spinal Cord Injury, Toledo Spain. The main focus of his lab are clinical applications of movement analysis for spinal cord injury patients (gait analysis in incomplete syndromes, manual wheelchair propulsion, functional evaluation, pressure mapping at the user-cushion interface, upper limbs movements). Another topic of his interest is the functional classification in disabled sports and the application of movement analysis laboratory. Last decade his focus of research is the application of biomechanics to the development of systems based on virtual reality for upper limb rehabilitation treatment and the development of neuro-robotic and neuro-prosthetics to compensate or restore movement disorders. He has more than 40 papers in international reviews. He collaborates as a peer reviewer in different impact factor reviews. He is Asociate Profesor in Medicine Faculty in University of Alcalá de Henares. He is current President of AITADIS (Iberoamerican Association of Technologies for Disabled Support)

2. AcademicDegrees

- Medical Doctor, Ph D in july 2009 Faculty of Medicine University Complutense Madrid

3. CurrentPosition

- Director of the Biomechanics and Technical Aids Department (since 2005) and Head of Physical Medicine and Rehabilitation Department (since 2015), at National Hospital for Spinal Cord Injury, Toledo Spain.

4. Publications

Scientificjournal

- Antonio J del-Ama, Ángel Gil-Águdo, Jose L. Pons and Juan C Moreno. Hybrid gait training with an overground robot for people with incomplete spinal cord injury: a pilot study. Frontiers in Human Neuroscience. 2014 vol 8 (298):1-10. doi: 10.3389/fnhum.2014.00298

- Ramón de la Rosa, Albano Carrera, Alonso Alonso, Benito Peñasco, Angel Gil-Agudo, Evaristo J. Abril. Myoelectric gaming in the rehabilitation of C7 spinal cord injury patients. *Appl. Sci.* 2019, *9*(9), 1912; https://doi.org/10.3390/app9091912. Impact factor 2.217

- Lárraga-García B, Lozano-Berrio V, Gutiérrez A, Gil-Agudo A, del-Ama Antonio J. A Systematic Methodology to Analyze the Impact of Hand-Rim Wheelchair Propulsion on the Upper Limb. Sensors (Basel). 2019 Oct 25;19(21). pii: E4643. doi: 10.3390/s19214643. IF 3.031

- De los Reyes Guzmán Ana, López Dolado Elisa, Monasterio Huelin Félix, Gil Agudo Ángel. Methodological Refinement of Upper Limb Kinematics of Spinal Cord Injured Patients Through Principal Component Analyses. Biomed J Sci & Tech Res 23(4)-2019. BJSTR. MS.ID.003942. DOI: 10.26717/BJSTR.2019.23.003942

- Gutiérrez, Á.; Sepúlveda-Muñoz, D.; Gil-Agudo, Á.; de los Reyes Guzmán, A. Serious Game Platform with Haptic Feedback and EMG Monitoring for Upper Limb Rehabilitation and Smoothness Quantification on Spinal Cord Injury Patients. *Appl. Sci.* 2020, *10*, 963.ISSN: 2076-3417, doi: , IF: 2.217, Q2 (67/148), Physics, Applied. https://doi.org/10.3390/app10030963

- Alvarez-Rodríguez, M., López-Dolado, E., Salas-Monedero, M., Lozano-Berrio, V., Ceruelo-Abajo, S., Gil-Agudo, A., de los Reyes-Guzmán, A. (2020) Concurrent Validity of a Virtual Version of Box and Block Test for Patients with Neurological Disorders. World Journal of Neuroscience, 10, 79-89. https://doi.org/10.4236/wjns.2020.101009

Proje

Recent Projects

- Smart Wearable Robots with Bioinspired Sensory-Motor Skills. BioMot. FP7-ICT-2013-10-611695 7th Framework Programe on Research. Small or medium-scale focused research project (STREP). 2013-2016.

- Evaluación de la terapia robótica con exoesqueletos en la rehabilitación de la marcha en lesionados medulares incompletos. Convocatoria FIS 2015. Periodo de realización 2016-2018. PI15/01437.

- EXTEND: Bidirectional Hyper-Connected Neural System. FET Proactive. (Ref: 779982) 2018-2021

- Rehabilitación motora de la lesión medular mediante aplicación combinada de exoesqueleto robótico, estimulación medular y modulación cortical RECODE Convocatoria 2017 de proyectos "Explora Ciencia" y "Explora Tecnología". Agencia Estatal de Investigación. Ministerio de Economía y Competitividad. DPI2017-91117-EXP

- Sistemas Modulares Robóticos y Neuroprotésicos Personalizables para la Asistencia de la Marcha Patológica (TAILOR). Proyecto Coordinado (Instituto Cajal-CSIC, Universidad Politécnica de Catalunya e Institutt Guttmann).. Convocatoria 2018 de proyectos de I+D+i "Retos de Investigación". Ref. RTI2018-097290-B-C31