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At a professional level, my career has been mainly related to neuropsychology and neuroscience. After finishing my degree in psychology I did a Master in Clinical Psychology at the UAB, and at the end of it I did a stay of about a year in the Neuroscience laboratory of Dr. Sven Ögren, Karolinska Institute, after which I returned to Spain and did a Master in Neuropsychology and Neurology of behavior (UAB). It was after finishing the Master's degree that I started my professional career at the Hospital Nacional de Paraplégicos (HNP) in the FENNSI group, whose main responsible is Dr. Oliviero. Together with the FENNSI group I have been able to do my PhD in Biomedicine on changes in motor and sensory function of the upper limb and cognitive changes in patients with a spinal cord injury of more than 10 years of evolution. During these 18 years I have collaborated in several research works both within the group and with other groups of the HNP. On the other hand, for more than 10 years that from the FENNSI group we have been carrying out the neuromodulation consultation, together with my colleagues, for the treatment of chronic neuropathic pain mainly with non-invasive brain stimulation techniques, such as Transcranial Magnetic Stimulation and Transcranial Direct Current Stimulation, applying more than 1500 treatments per year. Finally, in the last year, I have participated in one of the clinical trials carried out at the HNP, which are coordinated and managed by the FENNSI group.

#### **Selected articles:**

- Onate-Figuérez, A., Soto-León, V., Avendaño-Coy, J., Mordillo-Mateos, L., Pérez-Borrego, Y. A., Redondo-Galán, C., ... & Oliviero, A. (2022). Hand Motor Fatigability Induced by a Simple Isometric Task in Spinal Cord Injury. *Journal of Clinical Medicine*, 11(17), 5108.
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- Camacho, A. B., **Borrego, Y. P.**, Matas, M. R., León, V. S., Mateos, L. M., & Oliviero, A. (2019). Protocolo terapéutico del dolor con técnicas de estimulación no invasiva. *Medicine-Programa de Formación Médica Continuada Acreditado*, 12(75), 4451-4454.
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- Safety Study of Transcranial Static Magnetic Field Stimulation (tSMS) of the Human Cortex. *Brain Stimul.* 2015 May-Jun; 8(3):481-5.
- 2014- **Pérez-Borrego YA**, Campolo M, Soto-León V, Rodríguez-Matas MJ, Ortega E, Oliviero A. Pain treatment using tDCS in a single patient: tele-medicine approach in non-invasive brain stimulation. *Brain Stimul.* 2014 Mar-Apr; 7(2):334-5. doi: 10.1016/j.brs.2013.11.008. Epub 2013 Dec 7. No abstract available.
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