**MASTER’S DEGREE IN BIOMEDICAL RESEARCH**

**Research Project Proposal**

Academic year 2024-2025

Formulario a completar en inglés

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| **Project Nº** (Nº a completar por el Máster) |
| **Title:** *Methods for the evaluation of interventional studies in Neurosciences* |
| **Department/ Laboratory:**  *Psychology Department, University of Navarra*  *Physiological Monitoring & Control Lab, CIMA/University of Navarra.* |
| **Director 1:** *Martín Martínez Villar*  **Contact:**[*mmvillar@unav.es*](mailto:mmvillar@unav.es)  **Codirector:** *Miguel Valencia Ustárroz*  **Contact:**[*mvustarroz@unav.es*](mailto:mvustarroz@unav.es) |
| **Summary** *Short summary of the project with a* ***maximum extension of 250 words****, including the goals and the methodology that will be used*  *During this project, you will join the Psychology Department at UN and the Physiological Monitoring & Control Team at CIMA to develop methods to evaluate the effects of interventional studies in Neuroscience.*  *Depending on your background and/or skills you will use systems neuroscience tools (electrophysiology, fiber-photometry and/or optogenetics) to identify the neurofunctional domains in healthy subjects or alterations in patients and animal models of disease (epilepsy, Parkinson's, Alzheimer’s, or ASD).*  *With the ultimate goal of better understanding brain function, you could participate in the execution of cognitive and/or neuromodulatory approaches involving visual, auditory, electrical, magnetic or sensory stimulation.*  *In addition, you would have the opportunity to participate in technological developments including the implementation of techniques for data analysis (Python/Matlab software development), building recording electrodes, design of chronic implantation devices and wearable monitoring systems.* |
| |  |  | | --- | --- | | yes | X | | no |  |   Does the project include the possibility of supervised animal manipulation to complete the training for animal manipulator? |

**Enviar a** [**evines@unav.es**](mailto:evines@unav.es) **en formato WORD**