PROGRAM

Pre-Meeting Workshop on Computational Neuroscience

Organizer: Dr. Victor de Lafuente
Instituto de Neurobiología, UNAM campus Juriquilla

9:00-11: 00 *Introduction to Computational Neuroscience: Matlab tools to study neurophysiological signals*
Dr. Victor de Lafuente, Instituto de Neurobiología, UNAM campus Juriquilla, México

11:00-11:30 Recess

11:30-13:30 *Neural encoding and decoding for neuroprosthetics*
Dr. Mark Churchland, Columbia University Medical Center

13:30-14:30	**Lunch**

14:30–15:30 *Machine Learning: theoretical and practical aspects*
Dr. Mario Treviño. Instituto de Neurociencias. Universidad de Guadalajara, Jalisco
15:30- 16:30 *Analytical tools for Magnetic Resonance Imaging*
Dr. Alonso Ramirez. CIMAT, CONACYT, Guanajuato

Requisites

-The purpose of this workshop is to provide participants with a hands-on experience in some of the analytical tools used in computational neuroscience.

-The workshop is addressed to researchers and under- and graduate students working in the neurosciences and related areas such as biology and psychology, and also in areas such a mathematics and engineering. In general, the workshop should be fruitful to anyone interested in quantitative approaches to neuroscience.

-Before the start of the workshop, participants will receive by email some introductory texts related to Matlab programing and its use in the neurosciences. It will be the responsibility of each participant to properly study those texts before the workshop.

-Please bring a laptop with Matlab/Octave installed.

-Previous programming experience is desired, although this will be not an exclusion factor.

-Limited to 20 participants.

- Applicants must send an interest letter and CV to Dr. Victor de Lafuente: lafuente@unam.mx. An acceptation letter will be sent by June 15th.