

# Qlife

# Quantitative Biology Winter School Series

## NEURONAL NETWORKS

FEBRUARY 3<sup>RD</sup> - 7<sup>TH</sup>, 2020 - PARIS

### LECTURERS & INSTRUCTORS

Brice BATHÉLIER, Gif-sur-Yvette  
Karim BENCHENANE, Paris  
Jennifer BIZLEY, London  
Yves BOUBENEC, Paris  
Laurent BOURDIEU, Paris  
Caswell BARRY, London  
Rosa COSSART, Marseille  
Thomas DENEUX, Gif-sur-Yvette  
Valérie EGO-STENGEL, Gif-sur-Yvette  
Sami EL-BOUSTANI, Genève  
Samuel GARCIA, Lyon  
Matt JONES, Bristol  
Clément LÉNA, Paris  
Jennifer LINDEN, London  
Christian MACHENS, Lisbon  
Rémi MONASSON, Paris  
Adrien PEYRACHE, Montréal  
Jonathan PILLOW, Princeton  
Marie VANDECASTEELE, Paris  
Vincent VILLETTE, Paris  
Pierre YGER, Paris

### COORDINATOR

Patrick CHARNAY, Paris

PSL University and its Qlife program in Quantitative Biology organize their second winter school around the theme of Neuronal Networks.

The workshop aims at familiarizing participants with the latest concepts and technical developments, as well as current issues and practical know-how, in the recording and analysis of neuronal network activity, leading to recent discoveries of its function in perception, cognition and behaviour.

In addition to lectures from a broad range of experts, participants will be introduced to the know-how through performing a number of numerical workshops organized on the following themes: spike sorting, calcium data processing, signal processing, oscillations and brain states, model-based analysis of neural population activity.

Common lunches and dinners with the speakers and instructors will foster informal discussions.

The winter school is limited to 24 participants. It is open to M2 students and PhD students, as well as postdocs, engineers and junior scientists with backgrounds in biology, physics, computer science or mathematics.

Basic experience in file manipulation under Unix/Linux and in Python or Matlab programming is required.

Additional information is available on:

<https://www.enseignement.biologie.ens.fr/spip.php?article218>

**APPLICATION DEADLINE NOVEMBER 17<sup>TH</sup>, 2019**

REGISTRATION FEES: 150 € \*

- Registration link: <https://bit.ly/2IZ5fES>
- In addition, provide a CV, a motivation letter (including justification for travel grant if requested) and a supporting letter from a supervisor with "Qlife Neuronal Systems winter school 2020" as object to [melissa.dewulf@curie.fr](mailto:melissa.dewulf@curie.fr)

\* Fees cover food and lodging from Monday morning to Friday afternoon. Some travel grants will be available.

