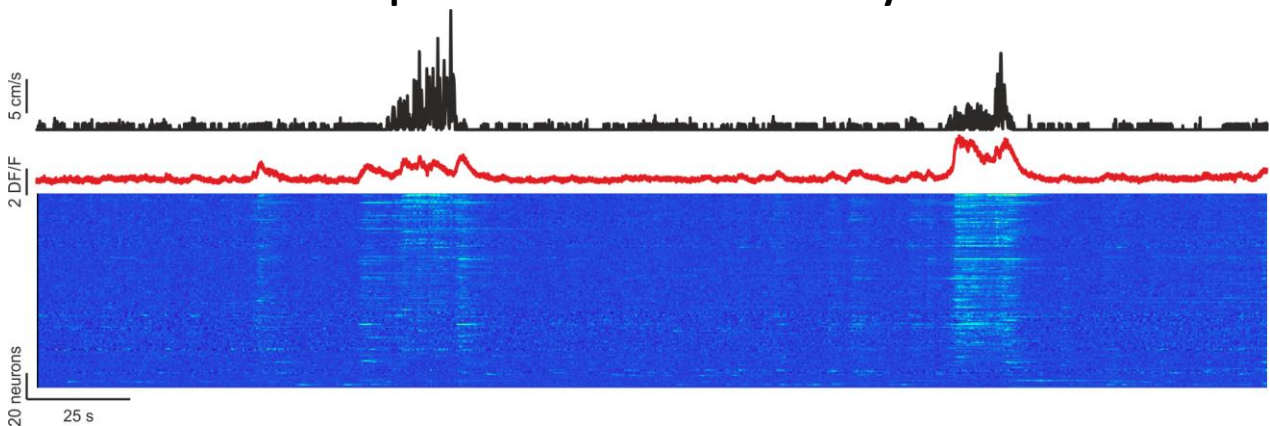


## Data scientist position in cortical inhibitory microcircuits



A data science engineer position is immediately available in the laboratory of Alberto Bacci at the Paris Brain Institute, Paris, France (<https://baccilab.org/>).

**The Project:** We study how the division of labor of different interneuron subtypes, their synaptic properties and plasticity are responsible for the emergence of different forms of cognitive-relevant network activity. The lab uses a combination of neurophysiological approaches, including multiple patch-clamp recordings in acute brain slices, optogenetics, in vivo patch-clamp and high-density multi-electrode (Neuropixels) recordings and 2-photon calcium imaging in awake mice.

### The tasks of the applicant will be:

- Design, test, and implement workflows and pipelines for automated analysis of high-dimensional data (calcium imaging coupled with visual stimulation, mouse behavior)
- Design of user-friendly interfaces for experimental neuroscientists
- Design and maintenance of internal and public repositories, including Git/ GitHub repositories, Python packages and data in NWB format.

### Requirements

- Master's degree in computer science, biomedical engineering, neuroscience or a related field
- Excellent programming skills (e.g. Python)
- Experience with GitHub repositories
- Good knowledge of English

### Additional Information

The lab offers a stimulating environment that values rigor, collaboration, close mentoring and critical but positive thinking. Equal opportunities and diversity are important to us! All potential candidates are equally welcome and encouraged to apply.

Please send your application, including a letter of motivation and CV as a single pdf document to [alberto.bacci@icm-institute.org](mailto:alberto.bacci@icm-institute.org) and [joana.lourenco@icm-institute.org](mailto:joana.lourenco@icm-institute.org)

We will go through all the applications, and you will be contacted for an informal interview if your profile matches our interest. Applications will be reviewed until the position is filled.