



LUCIE DESCAMPS

PHD CANDIDATE

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CURRENT POSITION

2nd year PhD candidate, Kavli Institute for Systems Neuroscience, Norwegian University of Science and Technology (NTNU).

Supervisor: Clifford G. Kentros

Thesis title: Calcium imaging of long-term memory traces in Anterior Cingulate Cortex

EDUCATION AND TRAINING

Stanford University

Visiting Graduate Student, March 2019-May 2019

Supervisor: Mark Schnitzer

University College London (UCL)

Research Assistant, 2017-2018

MSc in Neuroscience, 2016-2017

Supervisor: Michael Hausser

Universite de Montpellier (UM)

BSc in Animal Physiology and Neuroscience, 2013-2015

Undergraduate Researcher, 2014

Supervisor: Aurelie Celerier (CNRS-CEFE, UMR 5175)

PEER-REVIEWED PUBLICATIONS

Blankvoort S, **Descamps L**, Kentros G: Enhancer-Driven Gene Expression (EDGE) enables the generation of cell type specific tools for the analysis of neural circuits; *Neuroscience Research*, *in press*

PUBLISHED ABSTRACTS

Descamps L, Maxey J, Rogerson T, Schnitzer M, Kentros C: Observing consolidation: Calcium imaging of long-term object memory traces in anterior cingulate cortex; Society for Neuroscience annual meeting, Chicago, 2019

Descamps L, Kentros C: Calcium imaging of long-term memory traces in Anterior Cingulate Cortex; Norwegian National PhD conference, 2018

Robinson N, **Descamps L**, Russell L, Schmidt-Hieber C, Hausser M: All-optical manipulation of place cells drives spatially associated behaviour. Society for Neuroscience annual meeting, San Diego, 2018

Robinson N, **Descamps L**, Russell L, Schmidt-Hieber C, Hausser M: All-optical manipulation of place cells during spatial navigation. 11th FENS forum of Neuroscience, Berlin, 2018

TECHNICAL SKILLS

In Vivo calcium imaging:

Miniature head-mounted fluorescence microscope in freely-moving mice, 2-Photon in vivo calcium imaging in head-fixed mice

Optogenetics:

2-Photon single-cell resolution optogenetic targeting, coupled to simultaneous 2-photon calcium imaging ("all-optical").

Stereotaxic surgeries:

Viral injections, optical access to cortical (window implant) and subcortical regions (prism implant, cortical aspiration)

Histology:

Vibratome and cryostat cutting

Coding:

Notions in Matlab and Python

AWARD

Marie Skłodowska-Curie ITN Fellowship, 2018, M-GATE Project

The M-GATE project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 765549

OUTREACH

Instagram "take-over" on the account of The STEM Squad (www.instagram.com/thestemsquad, 14.4k followers as of January 2020)

Between 7th and 14th of July 2019, I posted about my research and engaged with users on the platform about the following topics: animal welfare in science, how to record from hundred of neurons simultaneously using calcium imaging, career prospects in science after a PhD.

Content can be found on the Instagram page, both in classic posts and in the "highlighted stories" under the name Lucie.