

Guillaume Le Goc

Last Updated on 23rd February 2023

@ g.legoc@posteo.org 🌐 legoc.fr 📞 +33(0) 6 45 76 47 39

Education

SORBONNE UNIVERSITÉ

PH. D.

📅 2017–2021 📍 Paris, France

- Neuroscience
- Animal experiments
- Statistical data analysis

MSC IN PHYSICS

📅 2015–2017 📍 Paris, France

- General physics – Light, matter and interactions
- Quantum mechanics, statistical physics, microscopy, biophysics, plasmonics
- With honors

BSc IN PHYSICS

📅 2012–2015 📍 Paris, France

- Physique and interfaces
- With honors

Links

🆔 ORCID **0000-0002-6946-1142**

📁 Codeberg **guilg**

📁 Gitlab **GuillaumeLeGoc**

Skills

COMPUTER

MATLAB



Python



LaTeX



Linux



Git



LANGUAGES

French (native)



English (C1)



Spanish (basics)



MISC.

Driving licence

Teaching

MATLAB (2nd year university)

Physics (1st year university)

Experience

GRADUATE STUDENT

LABORATOIRE JEAN PERRIN, CNRS/SU

📅 Oct 2017 – Dec 2021

📍 Sorbonne Université, Paris

👤 Calcium imaging and behaviour of larval zebrafish 👤 G. Debrégeas

- Exploration of larval zebrafish internal states using temperature.
- Design and building of behaviour and calcium imaging experiments, data acquisition, processing and analysis.

📄 microscopy

📄 image processing

📄 data analysis

📄 statistics

📄 electronics

📄 scientific writing

INTERN

LABORATOIRE JEAN PERRIN, CNRS/SU

📅 Mar 2017–Juil 2017

📍 Sorbonne Université, Paris

👤 Calcium imaging and behaviour of larval zebrafish. 👤 G. Debrégeas

- Study of heat sensation in zebrafish larva. Development, calibration and use of an experiment to stimulate a zebrafish larva with controlled hot water pulses while performing whole-brain imaging using a lightsheet microscope.

INTERN

SCHOOL OF PHYSICS AND ASTRONOMY

📅 Avr 2016 – Aou 2016

📍 University of St Andrews, Scotland

👤 Cold Atoms Group 👤 D. Cassettari

- Holography for cold atoms. Set up of an experiment to obtain arbitrary light intensity and phase profiles from a laser beam, using a phase-only spatial light modulator (SLM) and a digital micromirror device (DMD).

📄 optics

📄 image processing

INTERN

LABORATOIRE JEAN PERRIN, CNRS/SU

📅 Jun 2015 – Jul 2015

📍 Sorbonne Université, Paris

👤 Biophysics of micro-organisms 👤 N. Henry

- Study of the effect of mechanical constraints on bacterial biofilm growth. Definition of quantitative descriptors of the biofilm initiation in a flow based on timelapse movies.

📄 image processing

📄 bacterial culture

INTERN

INSTITUT DES NANOSCIENCES DE PARIS, CNRS/SU

📅 Jan 2015

📍 Sorbonne Université, Paris

👤 Nanometric Thin Films : Formation, Interfaces, Defects 👤 J.L. Cantin

- Study of magnetic properties of materials with electron paramagnetic resonance (EPR) for spintronics. Help on SurFER project (SURFace Electronic Resonance), a sample holder under ultravoids (10^{-10} mbar).

INTERN

INSTITUT PASTEUR

📅 Juin 2014

📍 Paris

👤 NMR of biomolécules 👤 I. Guijarro

- Expression, purification and analysis of hydrophobic protein RodC from pathogenic opportunist fungus *Aspergillus fumigatus*. Introduction to nuclear magnetic resonance (NMR) for 3D structure resolution of proteins.

📄 NMR

📄 bacterial culture

📄 purification