

Guillaume Le Goc

Last Updated on 12th May 2023

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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

RESEARCH ASSOCIATE

PARIS-SACLAY INSTITUTE OF NEUROSCIENCE, CNRS/PSU

📅 May 2023 – present

📍 NeuroPSI, Saclay

👤 Neuronal Circuits & Motor Control

👤 J. Bouvier

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.

🔍 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

- Heat sensation in zebrafish larva. Experiments 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. Experiments 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

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

🔍 microscopy 🖥 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

- Magnetic properties of materials with electron paramagnetic resonance (EPR) for spintronics.

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