

Guillaume Le Goc, Ph.D.

✉ g.legoc@posteo.org

🌐 <http://legoc.fr/>

🆔 0000-0002-6946-1142

📁 <https://codeberg.org/guilg>

🐙 <https://github.com/GuillaumeLeGoc>



Experience

- 2023 – ···· **Research associate (IR2)** 📍 Paris-Saclay institute of neuroscience (FR) 👥 Neuronal circuits & motor control 👤 J. Bouvier 📄 Data scientist for histology and behavior
- 2017 **Intern** 📍 Laboratoire Jean Perrin (Paris, FR) 👥 Calcium imaging and behaviour of larval zebrafish 👤 G. Debrégeas 📄 Heat sensation in zebrafish larva
- 2016 **Intern** 📍 School of Physics and Astronomy (St. Andrews, UK) 👥 Cold atoms group 👤 D. Cassettari 📄 Holography for cold atoms
- 2015 **Intern** 📍 Laboratoire Jean Perrin (Paris, FR) 👥 Biophysics of micro-organisms 👤 N. Henry 📄 Mechanical constraints on bacterial biofilm growth.
- Intern** 📍 Institut des Nanosciences de Paris 👥 Nanometric thin films 👤 J.L. Cantin 📄 Electronic paramagnetic resonance for spintronics.
- 2014 **Intern** 📍 Institut Pasteur (Paris, FR) 👥 NMR of biomolecules 👤 I. Guijarro 📄 Hydrophobic protein RodC from fungus *A. fumigatus*.

Education

- 2017 – 2021 **Ph.D., Sorbonne Université** 📍 Laboratoire Jean Perrin (Paris, FR) 👤 G. Debrégeas & R. Candelier 👥 Calcium imaging and behaviour of larval zebrafish 📄 *Exploration of larval zebrafish internal states using temperature*. Animal experiments, behavior and calcium imaging, image processing and statistical data analysis.
- 2015 – 2017 **M.Sc. Physics** 📍 Sorbonne Université (Paris, FR) 📄 Light, matter and interactions. With honors.
- 2012 – 2015 **B.Sc. Physics** 📍 Sorbonne Université (Paris, FR) 📄 Physics and interfaces. With honors.

Publications

- 1 N. Beiza-Canelo, H. Moulle, T. Pujol, T. Panier, G. Migault, **G. Le Goc**, P. Tapie, N. Desprat, H. Straka, G. Debrégeas, and V. Bormuth, *Current Biology*, 2023. 📄 DOI: 10.1016/j.cub.2023.05.026.
- 2 T. L. Van Der Plas, J. Tubiana, **G. Le Goc**, G. Migault, M. Kunst, H. Baier, V. Bormuth, B. Englitz, and G. Debrégeas, *eLife*, 2023. 📄 DOI: 10.7554/eLife.83139.
- 3 S. Wolf, **G. Le Goc**, G. Debrégeas, S. Cocco, and R. Monasson, *eLife*, 2023. 📄 DOI: 10.7554/eLife.79541.
- 4 **G. Le Goc**, J. Lafaye, S. Karpenko, V. Bormuth, R. Candelier, and G. Debrégeas, *BMC Biology*, 2021. 📄 DOI: 10.1186/s12915-021-01126-w.
- 5 S. Karpenko, S. Wolf, J. Lafaye, **G. Le Goc**, T. Panier, V. Bormuth, R. Candelier, and G. Debrégeas, *eLife*, 2020. 📄 DOI: 10.7554/eLife.52882.

Skills

- Languages **French** (native), English (C1), Spanish (B2).
- Software **Python**, MATLAB, \LaTeX , QuPath, Linux, git.

Research interest

Neuroscience and animal behavior : from behavior to neuronal circuits.

Individuality and variability.

Empower researchers in systematic data analysis.