DELHAYE Mathias

Birth: 06/16/1996 (24-year-old)
Nationality: French

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Status: Graduate student in Neuroscience

Academic training:

2020-2021: **2nd Year of Master of Science in Neuroscience – Sorbonne University**
Diploma of the École Normale Supérieure Paris-Saclay (4th year)

2019-2020: **Diploma of the École Normale Supérieure Paris-Saclay** (3rd year)

2018-2019: **2nd Year Master of Science in general biology – Paris-Saclay University**
Diploma of the École Normale Supérieure Paris-Saclay (Gap year)

2017-2018: **1st Year Master of Science Biology and Health – Paris-Saclay University**
Diploma of the École Normale Supérieure Paris-Saclay (2nd year)

2016-2017: **Third year of bachelor's degree in Biology and Health - University Paris-Saclay**
Diploma of the École Normale Supérieure Paris-Saclay (1st year)

2014-2016: Preparatory Class in Biology, Chemistry, Physics and Earth Sciences, L. Thuillier High school, Amiens (France) Mention A (equivalent to 120 ECTS)
Successful candidate at the ENS competitive exam – 15 successful candidates on 750 candidates
Successful candidate at the agronomic competitive exam – 208th on 3500 candidates
Successful candidate at the veterinary competitive exam – 160th on 2200 candidates

2013-2014: **Scientific Baccalaureate, European section (Biology in English)**,
Hirson (France) – obtain with high honours – 18/20

Professional experiences:

2019-2020: **Setting up and application of the Magnified Analysis of the Proteome procedure for the study of hippocampal synaptic proteins in mice (WT and mutant for one of the neurexin genes). Use of super-resolution microscopy and 3D-modeling to analyze the expanded tissue.** 1-year pure research internship at the University of British Columbia, Vancouver BC, Canada – Centre for Brain Health. Team leader: Pr Ann Marie Craig.

2019: **Study of the localization and the function of new molecules which are involved in the synapse formation and functioning, using cell and primary cell culture, immunohistochemistry, cells transfection and transduction, imaging and quantitative analysis.** 5-month pure research internship at the Collège de France, France - Center of interdisciplinary Research in Biology. Team leader: Dr Fekrije Selimi.

2018: **Study of the calbindin use as a sexual dimorphic molecular marker in the medial preoptic nucleus of Japanese Quail, using immunohistochemistry.** 6-week pure research internship at the GIGA neuroscience, University of Liège, Belgium - Laboratory of Neuroendocrinology. Team leader: Dr Charlotte Cornil.

2017: **Study of the importance of acetylcholine release in the mice prefrontal cortex on the social behaviour of the mice, using optogenetic and behavioural tasks such as 3 chambers test and social interaction task.** 11-week pure research internship at the Paris-Saclay Institute of neuroscience, Gif-Sur-Yvette CRNS, UMR 9197, Cognition & Behaviour department. Team leader: Pr Sylvie Granon.

2016: **Study of the drosophila circadian rhythm, using immunofluorescence and confocal microscopy**. 1-week introduction internship to the research at the Paris-Saclay Institute of neuroscience, Gif-Sur-Yvette, France - CRNS, UMR 9197, Molecules & Circuits department. Team leader: research director François Rouyer.

Recommendation:

Scientific: Pr Ann Marie Craig acraig@mail.ubc.ca
Ass. Pr Peng Zhang pxz187@case.edu

Academic: Pr Uriel Hazan uriel.hazan@ens-paris-saclay.fr