

Neuroscience PhD student

Born in Rome on March the 15th, 1988

Ecole Normale Supérieure
 Université Pierre et Marie Curie
 Paris, France

Italian Citizen
 unmarried without children

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Brain Rhythms and Neural Coding of Memory team

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Pathophysiology of Psychiatric Diseases team

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- **EDUCATION:**

- 2015-2019 **PhD** in *Neuroscience*, École Normale Supérieure (ENS) - Université Pierre et Marie Curie (UPMC), Paris (France)
- 2011- 2014 **"Diplôme de l'École normale supérieure"** in Science (Cognitive Science specialty), ENS – Paris (France)
- 2013-2014 **2nd level MSc (M2)** in *Integrative Biology and Physiology* (Neuroscience specialty), UPMC
- 2011-2012 **MScin Brain & Mind Science**, Institute of Neurology - University College London (UCL), UK
- 2008-2011 **BSc** in Ecology and Biodiversity Science (Neurobiology-Ethology specialty), Università di Pisa, Italy (1-year mobility at Université Paris-Sud)
- 2002-2007 **Baccalaureate** (science curriculum), Liceo Statale T. Mamiani, Rome (Italy)

- **RESEARCH EXPERIENCE:**

- Jan 2014-
today **PhD in collaboration between the Collège de France and Centre de Psychiatrie et Neurosciences in Paris (previously M2 research project)**
 Title: *Role of Hippocampal-Prefrontal Cortex Communication in Contextual Modulation of Traumatic Memories and Anxiety Disorders.*
 Methods: extracellular electrophysiology and optogenetics in behaving rodents.
 Supervisors: Dr Sidney Wiener and Dr Bill Godsil.
- Oct 2012-
Mar 2013 **Internship in the Optogenetic dissection of neural circuits lab of the ICM in Paris**
 Methods: Confocal imaging of neural circuits in transgenic zebrafish.
 Supervisor: Dr Claire Wyart.
- Sept 2011-
July 2012 **MSc research project at the Psychology Departement and Functional Imaging Lab of University College London**
 Title: *A magnetoencephalographic dissection of the temporal dynamics of appetitive/aversive value's computations in orbitofrontal cortex.*
 Methods: human magneto-encephalography.
 Supervisor: Dr Benedetto De Martino.
- Sept 2011-
Dec 2011 **MSc library project at the Gatsby Computational Neuroscience Unit of University College London**
 Title: *Distinct and mutual contributions of Basolateral Amygdala and Orbitofrontal Cortex to Reversal Learning*

Methods: bibliographic research and review dissertation redaction

Supervisor: Prof Peter Dayan

Sept 2010-
Apr 2011

BSc thesis at the *Institute of Behavioural Neuroscience of University College London.*

Title: *Influence of movements direction and stereotypic routes on place and grid cells' firing fields.*

Methods: single unit recording in behaving rodents.

Supervisor: Prof Kate Jeffery

▪ **PUBLICATIONS AND CONFERENCE PRESENTATIONS:**

Pasquet MT, Tihy M, Gourgeon A, Pompili MN, Godsil BP, Léna C & Dugué GP (2016) Wireless inertial measurement of head kinematics in freely-moving rats. *Scientific Reports*6: 35689;

Eckmier A*, Pompili MN*, Tirole M, Wiener SI, Godsil BP & Jay TM(2016) Optogenetic stimulation of hippocampal afferents to the PFC regulates contextual fear expression. *Poster presented at the "Probing neuronal circuits during behavior" conference, Bordeaux (France);*

Eckmier A, Zielinski Z, Pompili MN, Godsil BP& Jay TM (2016) Manipulation of contextual fear expression in rats by optogenetic stimulation of the VH-mPFC pathway. *Poster presented at the "Optogenetic approaches for pre-clinical studies" conference, Paris (France);*

Pompili MN, Gourgeon A, Jay TM, Dugué GP & Godsil BP (2016) Automated scoring of behavioral freezing in rats with a wireless inertial sensor device. *Poster presented at the CIRB annual meeting, St-Malo (France);*

▪ **TEACHING AND SUPERVISIONS:**

Sept 2015-
today Practical works and tutorials **teacher** for the Animal Physiology modules at Université Paris Diderot (BSc and MSc level): neurophysiology and endocrinology course units

Sept 2015-
today **Supervision** of 4 master students (6 months projects): Margot Tirole (UCL and ENS, 2016), Fanny Demars (ENS, 2017), Gabriel Makdah (UCL and UPMC, 2018), and Eulalie Leroux (UPMC, 2019)

Jun 2015-
today **Supervision** of 4 undergraduate students (3 months projects): Pierre-Antoine Vigneron (ENS, 2015), Cédric Colas (Supélec, 2015), Benjamin Billot (Supélec, 2016), and Eulalie Leroux (Université Paris Descartes, 2018)

Mar 2015-
today **Tutor** of the second year class of the *Dual Master in Brain and Mind Science* students in Paris (ENS and UPMC)

▪ **RESPONSIBILITY AND ADMINISTRATIVE POSITIONS:**

Mat 2017-
today Phd students and post-docs representative in the **CIRB institute council**

Apr 2016-
May 2017 Doctoral candidates representative in the ED3C **graduate school board** (Paris, France)

Nov 2015-
today **Technical manager** of the NeuroFabLab facility (Paris, France)

Jan 2009-
Jan 2010 **Students Representative** in the Administrative and Scientific Councils of the Science Faculty, and the Biology Department of Università di Pisa

▪ **COURSES ATTENDED:**

Aug 2016 **LabView** Core 1+2, National Instruments France - Nanterre.

Sept 2016 **Emotional Memory** (coordinator: Michael Fanselow), Neuroscience School of Advanced Studies – Novacella (Italy)

Feb 2016 **Surgical procedures on laboratory animals**, UniversitéBlaise Pascal – Clermont-Ferrand, France (French clearance obtained)

Sept 2015 **Experiments on Animals**, INSERM Paris (French clearance obtained)

May 2012 Statistical Parametric Mapping for **EEG/MEG**, Institute of Neurology, UCL (UK)

Oct 2011 Statistical Parametric Mapping for **fMRI**, Institute of Neurology, UCL (UK)

Sept 2010 **Animal Scientific and Surgical Procedures**, Biological Services Unit - University College London (UK Personal Licence obtained)

▪ **HONOURS, AWARDS, SCHOLARSHIPS, AND GRANTS:**

July 2017 Research grant from the Pierre Deniker Foundation (20k€)
June 2017 1-year PhD scholarship granted by the Labex MemoLife (34 k€)
Dec 2018 Research grant from the Labex MemoLife (145k€) with S.Wiener, K. Benchenane, J. Touboul.
July 2014 3-year PhD scholarship granted by the PSL research university (120 k€)
July 2014 First ranked in the ED3C PhD scholarship competitive exam (scholarship declined)
July 2014 Mention *Bien* for the M2 at UPMC-ENS
Sept 2012 MSc awarded with *first class honours* by the UCL
June 2011 110/110 *summa cum laude* overall Bachelor grade
Sept 2010 5-month scholarship granted by Erasmus Placement Programme and Università di Pisa
Sept 2009 11-month scholarship granted by Erasmus Mobility Programme and Università di Pisa
July 2007 97/100 grade for the Italian Baccalaureate in Science
Sept 2005 Wilhelm Von Humboldt prize at the Einstein Congress on Science in School, Berlin

▪ **SPOKEN LANGUAGES:**

ITALIAN Mother tongue
ENGLISH Fluent
FRENCH Fluent
SPANISH Fluent

▪ **INTERESTS:**

Travelling, music (piano, guitar),
cooking, literature, cinema,
politics, skiing, hiking, scuba
diving, sailing, football,
electronics, computers,
aquariology, photography...

▪ **INFORMATICS SKILLS:**

Experimental control and data acquisition
Electrophysiology data processing
Coding and data analysis
Drawing
Other
LabView (National Instruments), Cheetah (Neuralynx), Spike2 (CED), DacqUSB (Axona), MED-PC (MedAssociates), StreamPix (Norpix)
Neurosuite, Tint (Axona)
MatLab (MathWorks), R, Python, C, HTML
InkScape, FreeCAD, Illustrator (Adobe), Rhinoceros (McNeel& Associates)
Office packet, Windows and Linux (Debian-based) OS

▪ **REFERENCES:**

Dr Sidney Wiener, Collège de France
(PhD supervisor),
sidney.wiener@college-de-france.fr

Dr Thérèse Jay, Centre de Psychiatrie et
Neurosciences (lab head), therese.jay@inserm.fr

Prof Marie-Odile Krebs, Hôpital Sainte-Anne
Centre de Psychiatrie et Neurosciences
(lab head), marie-odile.krebs@inserm.fr

Dr Andréa Dumoulin, Ecole Normale Supérieure –
Paris (teaching supervisor - MSc convener),
adumoul@biologie.ens.fr

Prof Kate Jeffery, University College London
(undergraduate supervisor),
k.jeffery@ucl.ac.uk

Dr Bill Godsil, Centre de Recherche Clinique de
l'Hôpital Sainte-Anne (PhD supervisor),
bp.godsil@gmail.com

Dr Michaël Zugaro, Collège de France
(lab head), michael.zugaro@college-de-france.fr

Prof Ann Lohof, Université Pierre et Marie Curie
(teaching supervisor - MSc convener),
ann.lohof@upmc.fr

Dr Guillaume Dugué, Ecole Normale Supérieure –
Paris (collaborator – NeuroFabLab director),
gdugue.ens@gmail.com

Dr Benedetto De Martino, University of
Cambridge (MSc supervisor),
benedettodemartino@gmail.com

Paris, September the 19th 2018

In witness whereof,