

BERTRAND BEFFARA

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INTRODUCTION

I am a french PhD student in cognitive neuroscience. My general research interest is linked to the understanding of the interaction between different biological organization levels and of the ecological validity of laboratory-related biological features. My PhD project aims to investigate how priority signals (reward, trial history, probabilistic target location, etc) shape the brain processing that leads to a target selection in humans by using fMRI. I am also co-developing an independant open and slow science laboratory (<http://slowpen.science/>) within which I investigate epistemological and methodological issues related to behavioral biology.

EDUCATION

PhD: Attention as a Constraint between Perception and Action December 2018 - Now
Under the supervision of Prof. Emiliano MACALUSO, Integrative, Multisensory, Perception, Action and Cognition (IMPACT) Team, Lyon Neuroscience Research Center, Claude Bernard Lyon 1 University, France

Master's Degree (2nd year): Ecology, Evolution and Genomics September 2018 - December 2018
Attended classes: Interdisciplinary approach of ecology and evolution and transfer to its application, populational genomics, bayesian statistics, evolutionary trajectory
Claude Bernard Lyon 1 University, France

Master's Degree (2nd year): Fundamental and Clinical Neuroscience 2017 - 2018
Attended classes: Integrative neuroscience, molecular and cellular neuroscience, neuro-immunology, methodology, applied statistics
Claude Bernard Lyon 1 University, France

Master's Degree (1st year): Neuroscience 2016 - 2017
Attended classes: Integrative Neuroscience, cellular neuroscience, behavioral neurobiology, cognitive neuroscience, applied statistics, methodology, epistemology, development and plasticity of the nervous system
Claude Bernard Lyon 1 University, France

Bachelor's Degree (3st year): Physiology and Adaptative and Cognitive Neuroscience 2015 - 2016
Attended classes: Psychophysics, modelisation of the nervous function, behavioral biology and genetics, applied statistics, methodology
Aix-Marseille University, France

Bachelor's Degree (2nd year): Physiology and Adaptative and Cognitive Neuroscience 2014 - 2015
Attended classes: Physiology, epistemology, applied statistics, cell biophysics, linguistics, functional neuro-anatomy, cell communication, brain computing
Aix-Marseille University, France

Bachelor's Degree (1st year): Cell Biology and Physiology 2013 - 2014
Attended classes: Vegetal and animal physiology, chemistry, physiopathology, ecology, genetics
Blaise Pascal University of Clermont-FD, France

PROFESSIONAL SCIENTIFIC EXPERIENCE

Mitochondrial Morphology as a Tool to Characterize the Progenitors of Mouse and Monkey Germinal Zones January 2018 - May 2018
Supervised by Dr. Delphine DELAUNAY in the Stem-cell and Brain Research Institute (Lyon)

Mitochondrial Trafficking in Neurons of Primate Embryonic Brain Visual Areas January 2017 - February 2017
Under the supervision of Dr. Delphine DELAUNAY in the Stem-cell and Brain Research Institute (Lyon)

Genetical Approach of Mental Diseases

April 2016

Under the supervision of Pr. Pierre L.ROUBERTOUX in the Laboratoire de Genetique Medicale et Genomique Fonctionnelle (Marseille)

Lipids and Male Disorders and Cancers

March 2016

Under the supervision of Dr. Amalia TROUSSON in the Laboratoire de Genetique, Reproduction et Developpement (Clermont-FD)

Lipids and Male Disorders and Cancers

June 2014

Under the supervision of Dr. Amalia TROUSSON in the Laboratoire de Genetique, Reproduction et Developpement (Clermont-FD)

SKILLS

Theoretical: Evolutionary biology of the brain, behavioral biology, cognitive neuroscience, neurophysiology, epistemology, methodology, data analysis

Practical: Functional MRI, confocal microscopy, immunocytochemistry, cryostat, data analysis (R Studio, independant), brain modeling (Python, notions), microscopy images analysis (ImageJ, independant), psychophysics (Von Frey filaments)

EXTRA-CURRICULAR ACTIVITIES

Science: Walden III Slowpen Science Laboratory (Villeurbanne, France), epistemology, methodology, psychology, data analysis

Associations: cultural events organization within the "Asile 404" association (Marseille, France) (2014-2016) and the "Gratte 2 Pattes" association (Thiers, France) (2014-2017)