

Emeline LAGACHE

Address: 610 W, 113th St, NYC 10025

E-Mail: lagache@nyspi.columbia.edu

DIPLOMA

May 2016: **MD**, Rouen (France) Specialty **Psychiatry**

July 2007 : **Engineering degree from Ecole des Ponts Paristech**, Paris (France)

July 2000 : **Scientific High School Diploma** (Magna cum laude), Rouen (France)

EDUCATION

Nov 2011 - May 2016 : **Medical Psychiatry Residency**, University of Rouen (France)

Seminars: Essential Psychopharmacology, Depression

Practical internships : University Hospital of Rouen, Pr Guillin, Rouen (France)

Sept 2005 - Sept 2011 : **Medical School** (Final Rank: 624/7771), University Paris 5 and Rouen (France)

Sept 2002 - July 2007 : **Civil Engineering school Ecole Nationale des Ponts et Chaussées**, leading Engineering school in Europe, Major "Informatic and Mathematics", Groupe ParisTech, Paris (France)

Seminars: Differential Equations, Statistics, Simulations, Programming

Practical one year internship (2005), Strategy Analyst, *Modelling financial costs of a bank*, YKems, Paris (France),

Sept 2000 - July 2002 : **Two years intensive program** preparing for the competitive exam for entry in engineering schools (Final Rank: 315/6000), Rouen (France)

RESEARCH

Since February 2017 : **Post Doctoral position** : "Neural representation of prior information in psychosis", *Designing of a new task undelying prior influence in a Bayesian model in fMRI*, Department of Translational Imaging, Dr Horga, Department of Translational Imaging, New York State Psychiatric Institute, New York (USA)

Nov 2014 - May 2016 : **Medical National Doctorate Thesis**: "Medical consultation activity in a community care center : from theory to reality", *Mathematical modeling of the medical activity (patient flow, time of medical consultation,...)*, *comparison with the real activity*, Pr Guillin, Rouen (France)

Nov 2014 - May 2016 : **Medical Residency Final Project**, "Medical care of mood disorders : towards specialized care centers", *analysis of the dysfuctions in the actual medical care centers*, *mathematic modeling of a theoretical specialized care center (Need in doctors, students, beds,...)*, Pr Guillin, Rouen (France)

May - Nov 2013 : **Medical Residency Intermediate Project**, "Review of Pet-Scan effects of RTMS in negative symptoms of schizophrenia", *Review of litterature, choice of radiotracer, protocole design for a potential study*, Pr Guillin, Rouen (France)

June - Nov 2011 : **Medical Research Internship**, "Genomic study in cerebral ischemia", *Genes selection and primer's validation for QPCR, ADN extraction in mice, Programming high-speed QPCR robot*, Dr Vaudry, Molecular and Cellular Neuroendocrinology, DC2N INSERM U982, Mont Saint Aignan (France)

Jan - Oct 2006 : **Engineering final Internship**, "Modeling the dynamics of vesicle pools in presynaptic neurons", *Model of exocytosis including axonal geometry and calcium signaling*, Ecole Normale Supérieure Paris, INSERM 1024 CNRS 8197, Pr Holcman, Theoretical Modeling of Cellular Physiology, Paris (France)

Sept - Dec 2005 : **Engineering Research Internship**, "Modeling excitability of neurons: Generation of spikes and bursts", *Study of Hodgkin Huxley's models*, Pr Holcman, Theoretical Modeling of Cellular Physiology, Ecole Normale Supérieure Paris, INSERM 1024 CNRS 8197, Paris (France)

Apr - Jul 2003 : **Engineering Research Training**, "Cyclogenesis Analysis", *Quick formation in Meteorology and related tools, Role of East Waves in cyclogenesis*, Dr Gaye, LPAO-SF/ESP/UCAD, Dakar (Sénégal)

PUBLICATIONS, POSTERS

"Modeling the dynamics of vesicle pools in presynaptic neurons", Paulson JN, Duhamel E, Lagache T, Holcman D, National Conference of Undergraduate Research, Montana (EU) , 2010

LINGUISTIC AND INFORMATIC COMPETENCES

Langages:

French: native speaker

English : fluent

German, Italian : moderately fluent

Informatique:

Office (Excel) - Programation (C++, Matlab,..) - Statistics (R)

HOBBIES

Sports :

Triathlon in competition since 1998 (Finalist 2012 Ironman Embrun, Past member of first division team, Many Regional Titles)

Ultra trail since 2013 (Finalist 2014 Grand Raid de la Reunion (172 km, 10000 D+))