

Florian ROBERT

1/3

Agrégé of mathematics and PhD student.

Experiences

Research

Since October 2022	PhD student in Artificial Intelligence , <i>MONC and MIRCADE teams</i> , Bordeaux PhD under the co-direction of Baudouin Denis-de-Senneville (DR2, CNRS, MONC, INRIA) and Christophe Grosset (DR2, MIRCADE, INSERM 1312). The objective is to better understand the 3D organization of tumor tissues using volumetric imaging technology (SBF-SEM), applied mathematics and Artificial Intelligence.
June to September 2022	Internship in the SISTM team under the supervision of Mélanie Prague. Estimation of
	Teaching
September	Mathematics teacher, National Education
2020 to August 2022	Year of internship in the general high school of Andernos-Les-Bains then permanent position in Aulnay-Sous-Bois.
	 1st year : two classes of second grade. 2nd year : second and first grade with mathematics speciality, SNT, science education in the final year of high school.
March to	Lecturer in Data Processing, Campus Diderot, Bordeaux
May 2021	Gestion and Valorisation.
	Main achievements: preparation of courses, TD, partials and corrections.
May et June 2019	Substitute teacher , <i>High school François Mitterrand</i> , Créon Replacement for a full-time math teacher.
2017–2019	 Tutor of mathematics, Bordeaux University Helping students from Licence 1 to Licence 3 from different disciplines (mathematics, physics, biology) in small groups. Main achievements : teaching et explications; making appointments and organizing the schedule.

132 route de la Lucate – 40160 – Parentis-en-Born □ 06.24.16.67.41 • ☑ florian.robert@math.u-bordeaux.fr

Various

Summer Lifeguard, Soustons Town Hall, Soustons Beach seasons 2018 Organization and supervision of swimming, prevention, rescue and first aid of victims. to 2021

Formation

- 2021–2022 Master 2 : "Probability and random models", *Sorbonne university*, Paris With honors. Content : Markov processes in discrete and continuous time, stochastic computation (and application to molecular biology), statistics, machine learning for medical data.
- 2020–2021 Master 2 : "Métiers de l'Enseignement, de l'Eduction et de la Formation", Bordeaux University

Training to provide the tools and methods of teaching.

- June 2020 Agrégation and CAPES competitive exams Accepted at the Agrégation 256th and at the CAPES 55th.
- 2018–2020 Master : "Fundamental mathematics", Bordeaux University With honors (2nd/16) and participation to the preparation for the Agrégation (with option probability / statistics) during the master 2.
- 2015–2018 Licence : "Fundamental mathematics", Bordeaux University With honors, 2nd/86
 - 09/2015– First Common Year of Health and Paramedical Studies, Bordeaux University
 - 12/2015 Participation in first semester and competitive exams (class in 1600) then re-orientation in math.
 - 2015 **Scientific Baccalaureate**, *High school Victor Duruy*, Mont-de-Marsan Baccalaureate mention quite well.

Presentations

- June 2023 Assises juridiques de la santé et des biotechnologies, *Invited by the Lexposia* agency, Paris
- May 2023 MARGAUx PhD Days, Université de Poitiers

Master Thesis

- 2022 **Master 2 "Probability and random models**, *Estimation of mechanistic models using a variational and sequential approach. Application to SARS-COV-2.*, supervised by Mélanie PRAGUE
- 2020 Master 2 "Preparation for the Agrégation", Arithmetic equations, supervised by Laurent HERR
- 2019 Master 1 "Fundamental mathematics", Induction and restriction of representations, Forbenius reciprocity and applications in the case of symmetric groups, supervised by Christine BACHOC

Language

English B1

132 route de la Lucate - 40160 - Parentis-en-Born □ 06.24.16.67.41 • ☑ florian.robert@math.u-bordeaux.fr

Spanish basics Computer skills programming language : Python (SimpleITK, Numpy, Pandas, ScikitLearn), R, Matlab Operating systems : Windows, Mac OS, Linux Text processing : Latex, Pages, Word, Powerpoint, Excel Character

Thanks to my different professional experiences, I knew how to be punctual, ambitious, rigorous and to question myself. Moreover, I am responsible and autonomous. I enjoy working in a team and I am able to think critically.