Pierre Bouvet

(PhD, Engineer, MSc, BSc)

Skills

Brillouin Scattering
Optical design and alignment
Programming
Machine Learning
Electronical Engineering
Project Management

EDP skills

Python Matlab C/C++ Arduino

Languages

French (native) English (fluent) Spanish (fluent) Catalan (fluent)

Hobbies

Dog Training
Running
Sewing and Knitting
DJing and Sound Engineering

2 Le Bois Breton 77610 Neufmoutiers-en-Brie FRANCE

+33 6 76 40 02 44 Pierre.bouvet.96@ gmail.com

Improving our understanding of the role of mechanical anisotropy in microbiology

Education

PhD – Université Claude Bernard Lyon 1

2020 - 2023

PhD in Physics applied to Living Sciences
Development of Brillouin Scattering for the Analysis of 3D cellular
microcultures. Done at the CEA / LETI, in collaboration with Institut Lumière
Matière (ILM)

MSc - Grenoble INP - Phelma

2018 - 2020

Master of Science (Nanomedicine and Structural Biology)

Engineer Diploma - Grenoble INP - Phelma

2018 - 2020

Biomedical Engineering Degree

BSc - Grenoble INP - Phelma

2017 - 2018

Bachelor of Science (Physics, Electronics, Telecommunications)

Experience

Assistant Professor - Polytech Lyon (France)

2020-2023

Classes of Project Management and C++ programming

Internship – Institut Lumière Matière (ILM) Lyon (France)

2020

Realization of a VIPA spectrometer for the study of tumoral spheroids

iGEM 2020 (Supervisor) – Grenoble (France)

2020

Supervision of the biomedical engineers' students working on the PyoBusters project. The project aimed at modifying E. Coli bacteria to release therapeutic drugs to destroy P. Aeruginosa biofilms.

Gold Medal, Best Software Tool nomination, Best Hardware nomination

iGEM 2019 (Contestant) - Grenoble (France)

2019

Participation to the competition with the NeuroDrop project. The aim of the project was to detect

President of the largest DJ association of the engineering schools of Grenoble (\sim 5000 students), responsible of the sonorization and performances at the events (\sim 80 events/year)

Assistant Professor - Grenoble (France)

2017-2019

Assisting the Engineering Science teachers of the highschools "Lycée Mounier" and "Lycée Argouges" for the Engineering Sciences Olympiads (regional bronze medal in 2019)

Publications

Babin T, Dedole T, Bouvet P, Marcoux PR, Gougis M, et Mailley P. Electrochemical label- free pathogen identification for bloodstream infections diagnosis: Towards a machine learning based smart blood culture bottle. Sensors and Actuators B: Chemical 387, no March (2023): 133748.

Bouvet P, Clément F, Papoz A, Dehoux T, Baritaux JC. (2024) *Multimode Fiber-Coupled VIPA Spectrometer for High-Throughput Brillouin Imaging of Biological Samples*. Journal of Physics: Photonics 6, no 2:025010.