



# QUENTIN GRESIL

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## EDUCATION

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- PhD Thesis, LP2N, The University of Bordeaux** *Sept 2021 - Current*  
Propriétés de diffusion des nanotubes de carbone dans des milieux tortueux et biologiques  
Supervised by Laurent Cognet
- Master Light, Matter & Interactions, Light S&T Graduate Program, The University of Bordeaux** *Sept 2019 - June 2021*  
with Honours
- BSc Physics, One year abroad at The University of Bristol** *Sept 2018 - May 2019*
- BSc Physics, International Course, The University of Bordeaux** *Sept 2016 - May 2019*  
Undergraduate Diploma in Physics, International course, with Honours *June 2019*
- Medical School, The University of Bordeaux** *Sept 2014 - May 2016*

## WORK EXPERIENCE

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- Master Thesis at Ecole Polytechnique Fédérale de Lausanne, LBEN - Laboratory of Nanoscale Biology** *February 2021 - August 2021*  
*Master Thesis, Ultrathin nanopore under voltage, pressure and concentration gradients*
- Performed nanofluidic experiments in wet laboratories to probe ionic transport in solid-state nanopores using phase sensitive amplification techniques.
  - Measured novel nonlinear fluidic phenomena under a salt concentration gradient with an enhanced magnitude of ionic current compared to literature.
- University of Bordeaux, LP2N, Nanosciences, Biophotonics & Super-Resolution Microscopy team** *January 2020 - July 2020*  
*Research Internship, Gradient-Index lens widefield microscopy*
- Started and conducted a new research project in autonomy, aiming to implement single-particle-tracking of single-walled-carbon-nanotubes in-vivo.
  - Designed and assembled custom made fluorescence widefield microscope using a gradient-index lens with mechanical drawing, 3D printing of microscope parts, and manufacture of the illumination.
  - Achieved calibration of the newly built microscopy with imaging of fluorescent beads, ensuring accurate assembly of the microscope using Python Language, and ImageJ software.
- Beñat Fromager Affineur, Saint-Jean-de-Luz** *Summer 2017, 2018, 2019*  
*Cheesmonger*
- Employed communication skills and precise vocabulary, to promote the culinary heritage of prestigious local cheeses, to raise customer awareness on organic production methods.
  - Collaborated as part of a six members team, to provide detailed and concise advice to customers.
  - Managed the receipt of dairy product and cheese deliveries, maintaining high reliable organization of ripening cellars, to minimize wastage and ease stock replenishing.