

Ludivine MORVAN, 25 years old

NANTES – France

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Thesis « Computer-aided diagnosis in the multiple myeloma context » Biomedical and Health Engineer.

Formations

- ❖ **2018-2021:** PhD in information sciences, Imaging “Computer-aided diagnosis in the multiple myeloma context”, Ecole Centrale Nantes/Ls2n/CRCINA -NANTES
- ❖ **2015-2018:** Engineering school, Specialising in biomedical and health engineering (ISBS), Imaging/informatics et Biomechanics/ biomaterial specialities. (First-class honours), ESIPE – CRÉTEIL
- ❖ **2013-2015:** DUT Biological analysis IUT – BREST
- ❖ **2012-2013:** first year in CPGE (BCPST – Biology, chemistry, physics and earth sciences), Chateaubriand High school – RENNES
- ❖ **2012:** Baccalauréat S-SVT (grade B pass), Sainte-Anne High school – BREST

Acquired skills/knowledge

- ✓ **Languages:** French: mother tongue
English: read, spoken, written, B2
Spanish: read, spoken, written, B2
- ✓ **Software:** ANSYS, ImageJ, Orange, AndroidStudio, Slicer3D, Excel, Labview.
- ✓ **Programming:** Python, Matlab, R, SQL, Java, C++, Html, Xml, CSS.
- ✓ Basics and analytical techniques in biology
- ✓ Bioinformatics, Image analysis, synthesis and processing, physics, biomechanics, biomaterial, signal processing, machine learning, optimisation...

Professional experience

- ❖ **2018-2021:** Teaching in image processing, machine learning, control, python (engineering school) Ecole Centrale Nantes -NANTES
- ❖ **2018-2019:** private tuition in mathematics, Anacours
- ❖ **March-August 2018:** Recherche internship in Computed-aided diagnosis. « Survival prediction by Random Survival Forest and PET imaging in the multiple myeloma context», Ls2n – Ecole Centrale Nantes, CHU de Nantes.
- ❖ **2016-2018:** Recherche, innovation et development project, CHU Henri Mondor. « Improvement of an algorithm allowing patient-ventilator synchronisation ».
- ❖ **Mai-August 2017:** Imaging internship in a company, « Script creation to analyse elongated particles for improving the MiniTEM software », Vironova, STOCKHOLM – SWEDEN
- ❖ **July 2016:** Biomedical technician internship, CHRU de Brest, hôpital Morvan.
- ❖ **July-August 2015:** Laboratory technician bacteriology, CHRU de Brest, hôpital de La Cavale Blanche
- ❖ **April-June 2015:** internship for DUT validation, CHRU La Cavale Blanche, BREST

Acquired skills/knowledge

- ✓ Pedagogy, evaluation of students' difficulties
- ✓ Machine learning et statistical analysis, PET imaging, Radiomics
- ✓ Bibliographic search, report redaction
- ✓ Enhancement of the skills in Matlab et respiratory mechanics
- ✓ Enhancement of the skills in imaging and Python programming
- ✓ Autonomy, adaptability
- ✓ Knowledge on hospital devices functioning
- ✓ Study realisation, organisation
- ✓ Enhancement of the knowledge in bacteriology and molecular biology
- ✓ Position of responsibility, group work
- ✓ Utilisation of bioinformatics software
- ✓ Utilisation of analysis devices

Hobbies and interests

- ❖ Since 2001: modern-jazz and street-jazz dance
- ❖ Voluntary work, travels, horse riding
- ❖ 2016-2017: Treasurer of ISPA association (information and awareness of animal protection), voluntary work Active member in the Student office of the school
- ❖ 2016-2018: Student representative on the ESIPE management board