

Ludivine MORVAN, 25 years old

NANTES – France

Tel: 06XXXXXXXXX

E-mail: ludivine.morvan@ls2n.fr



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**