DE CLERCQ Allan

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Education

University of Lille – Polytechnic School of Engineering Lille (Grande École)   Sep. 2024 – Present
Master's in Health Engineering: Health Data Science [↗]   *Lille, FR*
- **Mathematics and Computer Science Courses**: Statistical modeling in health, algebra and analysis, machine learning, data management, algorithms, measurements and probabilities, data exploration, graph mining, artificial intelligence, types of reviews : systematic, scoping, umbrella, bibliometric review
- **Health and Biology Courses**: Epidemiology, molecular and systemic biology, genomics and genetic epidemiology, pharmacology, physiology, pathophysiology.

University Claude Bernard Lyon 1   Sep. 2021 – May 2023
2nd *and* 3rd *Year Bachelor's in Computer Science 2 and 3: Data Analysis - Class rank 17/149* [↗]   *Lyon, FR*
- **Mathematics and Computer Science Courses** Data analysis (Class rank 2), linear algebra, advanced matrix analysis, advanced programming, advanced databases, statistics, probabilities
- **Bachelor's Project** (Class rank 1): Classification, Skull Stripping, and Segmentation of Brain Tumor MRI [↗]

University Lumière Lyon 2   Sep. 2020 – June 2021
1st *Year Bachelor's in Mathematics and Computer Science: Applied to Economics and Sociology - Class rank 3/180*   *Lyon, FR*
- **Mathematics and Computer Science Courses** Linear algebra, matrix analysis, graph theory, algorithms for the social and human sciences, generic computer programming
- **Human and Social Sciences Courses:** Macroeconomics, microeconomics, management, sociology, research methodology

Research Experience

LIRIS - Laboratory of Computing, Image and Information Systems (CNRS) [↗]   May 2023 – Jul. 2023
Project: Deep Learning for Breast Tumor Detection (ABUS)   *Lyon, FR*
- Participation in MICCAI 2023 (Medical Image Computing and Computer Assisted Intervention Society)
- Project: Segmentation on Automated 3D Breast Ultrasound [↗]
- Supervisor: Pr. Meyer Alexandre

Additional Experience

Gap Year | Linguistic Project   Sep. 2023 - Aug. 2024
Au-pair (Living with a family in exchange for work - parental assistance)   *London, UK*
- Improvement of English language skills and Master's preparation (MOOCs)

MOOCs

Professional Certificate in Data Science [↗]
Probability, Inference and Modeling, Wrangling, Linear Regression, Machine Learning   *Harvard T.H. Chan School of Public Health*
7.00x Biology - the Secret of Life [↗]
Biochemistry, Genetics, Molecular Biology, Recombinant DNA, Genomics and Rational Medicine   *MIT Biology*
Projects
Several courses on data science and bio-informatics   *Udemy, DataCamp*

Technical, Language Skills and Interests

Programming Languages: Python, R, SQL, Excel/VBA, C/C++, Java
Libraries: PyTorch, TensorFlow
Writing Tools: LaTeX, Microsoft Office
Languages: French (native), English (fluent)
Interests: Science, Research, Public Health, Child Health, Data Science, Humanities and Social Sciences, Philosophy

Extracurricular

Engagements: Member of Amnesty International, Greenpeace
Sports: Running (marathoner), swimming, football, cycling
Student Jobs: Waiter, receptionist, babysitter, tutor, salesperson

References

Antoine Lamer [↗]
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- Assistant Professor - University of Lille
- Data scientist - F2RSM Psy [↗] : Regional Federation for Research in Psychiatry and Mental Health Hauts-de-France

Alexandre Meyer [↗]
alexandre.meyer@univ-lyon1.fr
- Associate Professor - University of Lyon
- Assistant coordinator - LIRIS Image (CNRS lab) [↗] : Image and Information Systems Informatics Laboratory