Cyrille Mesue NJUME

Enthusiastic Bioengineer eager to contribute to team success through hard work. Attentive to detail, employs excellent critical thinking and aims at utilizing machine learning, Medical Imaging and Bioengineering technology to make a positive impact in global healthcare. Enjoys gathering, organizing and analyzing information, and contributing to project strategies.

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EXPERIENCE

Yildiz Technical University Lipid and Biocomposite Lab, Istanbul — *Biomaterials Trainee.*

JANUARY 2020 - 1 MONTH / JUNE 2020 - AUGUST 2020

- Gained Research and Development Experience with Biomaterials
- Gained experience handling Laboratory devices such as Centrifuge, PH meter, nano pipettes, microscope, FTIR, oven, etc
- Produced Gelatin, Chitosan, PVA based bioactive glass nanocomposites for tissue regeneration research.
- Produced simulated body fluid, artificial saliva and stomach juice for in vitro testing of bioactive biomaterials.

EDUCATION

Yildiz Technical University, İstanbul Turkey — *Bachelors Degree in Bioengineering*

SEPTEMBER 2018- PRESENT

- Studies engineering principles for biomedical applications. See details on completed courses: https://cyrillemesue.github.io/Courses/

University of Yaounde I, Yaounde Cameroon — *Bachelors Degree in Biosciences*

SEPTEMBER 2017 - JUNE 2018

- Studied Bioscience subjects such as Biology, Chemistry, Physics and Maths for a period of one year.

GBHS Essos, Yaounde Cameroon — *High School Diploma*

SEPTEMBER 2015 - JULY 2017

- Studied pure science subjects and earned grades: Biology A, Physics A, Chemistry A, Mathematics A, Further Mathematics A.

SKILLS

- Good Communication
- Critical Thinking
- Quick and Curious Learner
- Machine Learning
- Deep Learning
- Image and Signal Processing
- Data Analysis
- Tissue Engineering Laboratory

SOFTWARE

- MS Excel, Word and Powerpoint
- MATLAB
- R Studio
- Octave
- Jupyter Notebook
- Google COLAB
- Python Frameworks, Tensorflow, Keras, sklearn, FastAI.

RESEARCH INTEREST

- Cancer Research
- Cancer Systems biology
- Bioinformatics
- Machine Learning and Deep Learning
- Medical Imaging
- Digital pathology
- Music(Hobby)

CERTIFICATIONS

- Introduction to the biology of

ONLINE COURSES

- **Introduction to the biology of cancer** Coursera course
- **Understanding Cancer Metastasis** Coursera course
- **The Science of Stem Cells** Coursera course
- **Python 3 Programming** by University of Michigan Coursera course
- **Matlab Programming for Engineers and Scientist** Coursera course
- **Excel Skills for Business Specialization** Coursera course
- **Machine Learning** by Stanford University Coursera course
- **Deep Learning** by Deeplearning.ai Coursera course
- **AI for Medicine** by Deeplearning.ai Coursera course
- For other courses, visit https://cyrillemesue.github.io/Certification/#other-courses

PROJECTS

Teknofest AI in Healthcare competition— Building a state-of-the-art artificial intelligence (AI) model to enhance medical and companion diagnosis of stroke.

MARCH 2021 - SEPTEMBER 2021

- Collaborated with a computer science researcher to build a deep learning model for predicting and semantically segmenting stroke in brain CT.
- Implemented different image enhancement filters with open cv, transfer learning and different ensembling methods such as max-voting, random forest, and decision trees.
- Implemented k-fold cross validation to evaluate how the model generalizes on different datasets.
- Experimented with fastai, keras, tensorflow and pytorch libraries and different model backbones such as Resnet50, Resnet34, Densenet121, VGG19 and so on.
- Experimented with different image preprocessing techniques and model hyperparameter tuning to optimize model performance.

cancer
- Understanding Cancer Metastasis
- The Science of Stem Cells
- COVID-19 Contact Tracing
- Machine Learning by Stanford University
- Deep Learning Specialization(4 courses)
- Python 3 programming Specialization(5 courses)
- AI for Medicine Specialization(3 courses)
- MATLAB Programming for Engineers and Scientists Specialization (2 courses)
- Excel Skills for Business Specialization (4 courses)
- Improve Your English Communication Skills Specialization (4 courses)
- Programming Foundations with JavaScript, HTML and CSS
- To view certificates, visit https://cyrillemesue.github.io/Certification/

AWARDS

- **Regional Best Student Performance Award in 2017 National Advanced Level Exams.** I got awarded with 178 000 Franc CFA
- **Winner of the 2017 Medical Olympia among High school students Nationwide.** I got a certificate of Excellence.

LANGUAGES

- English - Full Professional Proficiency
- French - Professional Working Proficiency
- Turkish - Professional Working Proficiency
- German - Limited Working Proficiency
- Akosse - Native