Ndeye Maguette MBAYE
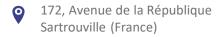
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Ph.D Student in Bioinformatics

Mines Paristech / Centre de Bioinformatique

PROFILE

Machine learning - electronical health records -- breast cancer -- NLP – Multimodal learning – gene regulatory network – boolean model

WORK EXPERIENCE

Ph. D intern in Max Planck institute for psychiatry (Munich, Germany) – November 2022 – now
Transformers for multimodal electronical health records using late integration methods
Embeddings methods

Ph. D intern in IBM – Haifa (Israel) – June – September 2021
Transformers for multimodal electronical health records (BEHRT)

Bioinformatics research assistant in the Laboratoire Commun de Microbiologie (Bel Air, Dakar): Institut de Recherche pour le Développement (IRD)/ Institut Sénégalais de Recherches Agricoles (ISRA) / Université Cheikh Anta DIOP de Dakar (UCAD) – April - Décember 2018
Dynamic modeling of gene regulatory network invoved in root development in *Arabidopsis thaliana*.

Bioinformatics technician in the Joint Microbiology Laboratory (Bel Air, Dakar) – October - December 2017
Creation of a database of existing strains in the laboratory
Creation of an intranet site for the viewing and the handling of data

Bioinformatics technician in the medical analysis laboratory SOLABSEN (Plateau, Dakar) — February - May 2017
Research on the correlation between blood sugar and glycated hemoglobin value
Management of ODANCIO health management software : Reception of patients and inclusion in the ODANCIO database
Animation of scientific meetings: Presentation of articles in Bacteriology

EDUCATION

2019 - now : Mines Paristech / ED Ingénierie des Systèmes, Matériaux, Mécanique, Energétique – Ph. D in Bioinformatics

2016 - 2019 : Université Cheikh Anta DIOP de Dakar / Faculté des Sciences et Techniques — Master in Biomathematics - Bioinformatics

2015 - 2016 : Université Cheikh Anta DIOP de Dakar / Faculté des Sciences et Techniques — Bachelor in Biomathématiques - Bioinformatique

2012 - 2015 : Université Cheikh Anta DIOP de Dakar / Faculté des Sciences et Techniques — Bachelor in Biology, Chemistry and Geosciences

SKILLS

Programming Languages: Python, R, HTML, CSS, PHP/MySQL, C++

Softwares / Plateforms : PDB, NCBI, PYMOL, MicroScope

Languages skills:
French : Bilingual
English : Fluently
Spanish, chinese : Basics

Ph. D activities	**Talks :**
	Women in Machine Learning and Data Science, Paris (France) – September 20th, 2022 Machine Learning Frontiers for Precision Medecine, Munich (Germany) – October 17th, 2022 Winter School in Computer Science and Engineering, Jerusalem (Israël) – January 15th, 2023 Computational Systems Biology of Cancer, Paris (France) – September 25th, 2023
	Poster:
	Journée des doctorants 2A – Mines Paristech , Paris (France) – May 25th, 2021 Winter School in Computer Science and Engineering, Jerusalem (Israël) – January 15th, 2023 Computational Systems Biology of Cancer, Paris (France) – September 25th, 2023
	Others:
	Hackathon EUvsVirus, online -- https://www.euvsvirus.org Fête de la Science – Speed Searching : Meeting and discussion with researchers, Institut Curie in Paris (France) – October, 15th, 2022 MLFPM Hackathon, Cross species prediction of AMR from multi-modal data, Tartu (Estonia) – June 13-17th, 2022
REFERENCES	**Chloé-Agathe AZENCOTT** - Researcher - Centre de Bioinformatique (PI) chloe-agathe.azencott@mines-paristech.fr
	Mikael LUCAS – Researcher - IRD mikael.lucas@ird.fr
	Laurent LAPLAZE – Reseacher - IRD laurent.laplaze@ird.fr
	Mouhamadou DIALLO – Researcher - Hôpital Aristide LEDANTEC misbax@gmail.com