



DIEGO AMAYA

PHD IN COMPUTER SCIENCE

EDUCATION

PhD in Computer Science

Oct. 2019 - July 2024

Université de Lorraine - INRIA - INSERM

- Thesis title : Data science approach for the exploration of HLA antigenicity based on 3D structures and molecular dynamics.
- Fields : Structural bio-informatics, machine learning, immunology.

Master in Biomedical Engineering

Feb. 2017 - June 2019

Universidad Nacional de Colombia - Colombia

- Thesis title : Implementation of an in-silico strategy for the identification of personalized therapeutic vaccine candidate in tumor of a PEComa patient.
- Fields : Neo-antigens, bio-informatics, omics, molecular docking, immunology.

Physics Engineering

Feb. 2008 - Aug. 2014

Universidad Nacional de Colombia - Colombia

- Academic exchange : 2 years at INSA Toulouse - France (Sep. 2012 - Aug. 2014).
- Fields : Biophysics, maths.

WORK EXPERIENCE

Research engineer

Sept. 2023 - Dec. 2024

CNRS Délégation Centre Est

- Development of a molecular dynamics data visualization interface to support HLA compatibility assessment in organ transplantation.

University teacher (ATER)

Oct. 2022 - Aug. 2023

Université de Lorraine - Télécom Nancy

- Computer science teaching: Data structure, big data and databases.

Head of international academic agreements

Oct. 2014 - Sep. 2019

Engineering School - Universidad Nacional de Colombia

- Negotiation of international student exchange agreements.

CONTACT

📍 Nancy, France

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LANGUAGES

- English (advanced)
- French (advanced)
- Spanish (native)

TECHNICAL SKILLS

- Programming: Python, Bash (advanced), Git (intermediate)
- Machine Learning/data mining: Scikit-Learn, WEKA (advanced), PyTorch, Keras (intermediate)
- HPC: OAR, Slurm, cloud computing (advanced), Docker, OpenMPI (intermediate)
- Databases: SQLite, MongoDB, Hadoop, Spark (intermediate)
- Molecular Docking: Rosetta, ATTRACT, GOLD (advanced)
- Molecular Dynamics Simulations: NAMD (advanced)
- Omics: Genomics - WES, Transcriptomics - RNA seq (advanced)

SOFT SKILLS

- Project Management (MOOC École Centrale de Lille)
- Autonomy
- Adaptability
- Rigorosity



SCAN FOR MORE INFO

