

**MESBAH**

**Ismahene**

*Aix-Marseille University*

**M.Sc. in Bioinformatics:**

**Software development and data analysis**

2019 - 2021

Marseille, France

Ville, Pays

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E D U C A T I O N

*Claude Bernard Lyon 1 University*

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**B.Sc. in Bioinformatics, Statistics and Modelling**

2015 - 2019

Lyon, France

English

Arabic

French

P R O F I L E

E X P E R I E N C E S

January – July 2021

**Laboratoire Adhésion Inflammation - INSERM U1006**

Marseille, France

Software development for Atomics Force Microscopy (AFM) based Single Molecule Force Spectroscopy (SMFS) data analysis

* Load force-distance curves from high-speed Atomic Force Microscopy (AFM) based Single Molecule Force Spectroscopy (SMFS) files.
* Data preprocessing.
* Detection of force peaks that correspond to the unfolding of the protein.
* Classification of significant and non-significant data.
* Build a user-friendly Graphical User Interface (GUI) in Python.

France

<https://www.linkedin.com/in/ismahene-m-753735150/>

<https://gitlab.com/ismahene_mesbah>





**Laboratoire Adhésion Inflammation – INSERM U1006**

April – August 2020

Marseille, France

Aires, Argentina

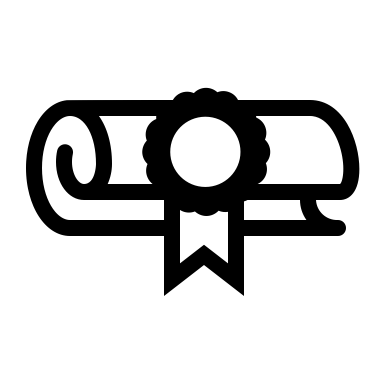
* Extract information from the SMD simulation output files.
* Plot the Force-Distance curves.
* Compute the extensions between the residues.
* Peak detection from force-distance curves.
* Refinement of peak detection using the extension vs time profile.
* Refolding detection from the extension vs time profile.
* Build a Graphical User Interface in Python.

Software development for Steered Molecular Dynamics (SMD) simulation data analysis

H O B B I E S

* Travel: France, Netherlands, Belgium, Italy.
* Sport: swimming, Yoga, equitation.
* Volunteer at *Solidarité educative* program: mathematics courses for teenagers.
* Hiking.

L A N G U A G E S K I L L S



*TOEIC: 825/990*

**Ecole Normale Supérieure de Lyon (ENSL)**

March – June 2017

Lyon, France

Explore the Nucleosome Inhibitory Energy Barriers (NIEB) beyond the vertebrates

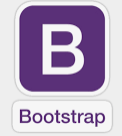
* Selection of eukaryotic genomes to study under specific criteria.
* Build a database of these genomes.
* Detect NIEBs using software packages developed in the laboratory.
* Analyze the distribution of the barriers along the genomes.

Spanish

P R O G R A M M I N G S K I L L S



Une image contenant texte, clipart

Description générée automatiquement

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