

Ali Farhat

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Education

Ecole Normale Supérieure – Paris Saclay

M2 Master's in Mechanics of Materials for Engineering and Integrity of Structures - MAGIS

Thesis: Development of an incremental damage model in **Fatigue-Creep** behavior for turbine blades [Non-Validated]

Relevant Coursework: **Material Behavior, Continuum Damage Mechanics...**

Gif sur Yvette

2022

University of Grenoble Alpes

M1 Master's in applied Mechanics

Thesis: Experimental development of a biomimetic setup to mimic pulmonary tracts

Relevant Coursework: **Mechanics of Materials, Solid Mechanics, Geomechanics...**

Grenoble

2021

Beirut Arab University

Bachelor's in Civil and Environmental Engineering

Thesis: Soil Structure Interaction in excavation works

Relevant Coursework: **Mechanics of Materials, Soil Mechanics, Advanced Structural Analysis, Steel Structures...**

Beirut, Lebanon

2020

Experience

Safran Aircraft Engines

Intern

Villaroche, Ile de France

April 2022– October 2022

- Performing analysis on experimental database using **Python** libraries (Pandas, NumPy, Matplotlib...)
- Understanding and running current incremental damage model
- Studying **fatigue** and **creep** effects in a **fatigue-creep** experimental database (**fatigue with holding time**)
- Posing hypotheses about the limits of behavior (purely creep-like, fatigue-like, or hybrid)
- Participating weekly in meetings to discuss the progress and suggest next actions to be taken.

Rheology and Processes Laboratory

Research Intern

Grenoble

January 2021 – September 2021

- Designing and building an experimental setup.
- Continuously performing experiments and evaluating the experimental setup to be improved/fixed.
- Analyzing the results of the experiments
- Regularly participating in meetings to suggest the next steps for the experiments and discussing the big picture

Leadership & Activities

Lebanese Scouts

Member/Leader

Beirut, Lebanon

2005 – 2020

- Participating in boy scout activity weekly for almost 15 years
- Starting as a scouts cub until becoming a scouts leader
- Organizing and performing activities while taking responsibility of huge numbers of members

Skills & Interests

Technical: Programming [Python, C++], FEA [Comsol, Ansys, Abaqus...], CAD [Autocad...]

Language: English [Professional], French [Intermediate], Arabic [Native Speaker]

Laboratory: Performing and Analyzing **Mechanical tests** [Uniaxial, Biaxial, Fatigue, Creep...]

Interests: Watching movies, spending the day in the park, participate in sport activities...