



# BILAL AL TAKI

## Project Manager R&D

📅 Mars 22, 1991 🇫🇷 French & Lebanese 🏠 14th arrondissement of Paris  
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🌐 Homepage 🌐 LinkedIn 📄 GitHub  
📄 Three months' notice 🇫🇷 French Version of CV

## EDUCATION

Ph.D. in Appl. Math.  
Grenoble-Alpes Univ. & Lebanese Univ.

📅 2013 - 2016 📍 FR, LB

Title: On some heterogeneous models in fluid mechanics.

Master degree in Appl. Math.  
Lebanese Univ. & Nantes Univ.

📅 2011 - 2013 📍 FR, LB

Title: Stability of finite difference schemes for hyperbolic boundary value problems.

## CERTIFICATIONS

• Data Science Prof. Certificate | IBM  
(Syllabus, Certificate)

• Machine Learning Special. | Stanford  
(Syllabus, Certificate)

## STRENGTHS

Leadership Creativity Adaptability  
Teamwork Autonomy AI  
Optimisation Fluid Mechanics

## INFORMATICS

Ansys Python SQL OpenFoam  
Latex Git Excel

## RESPONSABILITIES

- Supervision of interns and apprentices
- Member of the jury for the "Advance" competition at EPITA
- Supervision of student projects at ESILV
- Technical expert in hydrodynamic stability, optimization, and mathematical modeling.
- Management of a 15-person team.

## LANGUAGES

Arabic  
French  
English

## PERSONAL PROJECTS

- Data Science with Python (📄, 2021)
- Car's generation detection (📄, 2021)
- Machine Learning with Python (📄, 2022)

## AWARDS

Boya postdoctoral fellowship

## ABOUT ME

*Experienced doctor and technical leader with solid experience in multidisciplinary project management. Passionate about innovation and solving complex problems, I'm looking for new challenges in which I can apply my technical skills and leadership experience to achieve outstanding results.*

## EXPERIENCE

### Project Manager R&D | Capgemini Engineering

📅 April 2023-Present 📍 Meudon, FR

- Coordination of multidisciplinary technical studies for the development of a floating data center in the sea.
- Technical leadership in implementing innovative solutions to address challenges associated with the design and maintenance of the offshore data center, based on hydrodynamic stability studies and mechanical calculations.
- Supervision of in-depth thermodynamic studies aimed at designing a mixed cooling system, utilizing both air and seawater for maximum efficiency, thereby reducing the data center's carbon footprint.
- Developing a digital twin to harness renewable energies while optimizing cost and maintenance.
- Documenting the results of risk analysis and project requirements, taking into account industry standards and regulations.

### Researcher | TU Kaiserslautern

📅 Sept 2022-Mars 2023 📍 Kaiserslautern, DE

- Theoretical and numerical study of complex fluid flows, particularly in biological applications such as drug transport in blood tissue and geophysical applications (Publication).

### Research and Teaching Fellow | Sorbonne University

📅 Sept 2021- Aug 2022 📍 Paris, FR

- Active participation in ANR-funded research projects to support innovation and scientific research.
- Supervision of interns and PhD students in their research work, contributing to the training of the next generation of researchers.

### Researcher | Peking University

📅 Jan 2020 - Aug 2021 📍 Beijing, CN

- Development and study of a mathematical model for modeling snow avalanches, including a theoretical analysis of the existence of solutions and numerical simulations performed in Python.
- Teaching mathematics to students at various levels, both nationally and internationally, covering a variety of mathematical topics (Teaching Portfolio).

### Postdoctoral Researcher | INRIA & Sorbonne University

📅 Sept 2017 - Dec 2019 📍 Paris, FR

- Presentation of research results at international conferences in the field, and regular publication of scientific articles in internationally renowned journals, enriching the body of scientific knowledge.
- Research on the shoreline model for the study of coastal phenomena and interactions between oceans and coasts, with implications for coastal risk management and ecosystem preservation.

## SKILLS

- Strong project management and multidisciplinary team leadership skills.
- Proven expertise in analyzing complex problems and proposing innovative solutions.
- Excellent communication skills to foster collaboration between different teams.
- Adaptability to new technologies and fields, with a strong motivation for continuous learning
- Commitment to excellence and quality, with a rigorous approach to project success.
- Advanced expertise in in-depth research and publication of articles in leading journals, as well as participation in international conferences (Google Scholar Profile)