BILAL AL TAKI

Project Manager R&D

🎂 Mars 22, 1991 🏳 French & Lebanese 🏠 14th arrondissement of Paris
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🌐 Homepage in 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 Universiy

📅 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)