



BILAL AL TAKI

Research Scientist

Mars 22, 1991 Franco-Libanais 14th arrondissement of Paris
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 Homepage LinkedIn GitHub
 Immediately available

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

- What is Data Science|IBM.
(Syllabus, Certificate)
- Python for Data Science, AI & Development|IBM.
(Syllabus, Certificate)
- Data Science with Python|IBM.
(Syllabus, Certificate)
- Machine Learning with Python|IBM.
(Syllabus, Certificate)
- Machine Learning Specialization|Stanford.
(Syllabus, Certificate)

STRENGTHS

- Statistics
- Optimization
- Modeling
- Data Visualization
- Python
- SQL
- Machine Learning
- Deeplearning
- R
- Data Science
- Github
- PDEs

RESPONSIBILITIES

- Master Internship Co-Supervision of C. El Hassanieh at INRIA.
- Participation in the jury of "Advance Coucours" at EPITA.

LANGUAGES

Arabic

French

English

HOBBIES

- Basketball and Badminton
- An insight into Human behavior

AWARDS

Boya postdoctoral fellowship

ABOUT ME

Having a Ph.D. in applied mathematics, and being passionate about Artificial Intelligence and Machine Learning related subjects with good knowledge in this field, I am looking at joining a dynamic company and working on innovative projects for a promising future.

EXPERIENCE

Researcher | TU Kaiserslautern

- Sept 2022–Present Kaiserslautern, DE
- Modeling and studying non-Newtonian fluids for medical and environmental applications.
 - Teaching Statistics and Probability with R for Higher School Preparatory Classes at ESILV.

Research and Teaching Fellow | Sorbonne University

- Sept 2021– Aug 2022 Paris, FR
- Establishing new mathematical results concerning problems related to Landslide phenomena (publication).
 - Teaching various mathematical courses for first and second-academic-year students.

Researcher | Peking University

- Jan 2020 – Aug 2021 Beijing, CN
- Developing new achievements to understand the shoreline problem in environmental problems (publication).

Research and Teaching Fellow | Sorbonne University

- Jan 2019– Aug 2019 Paris, FR
- Collaborating with colleagues during the CEMRACS'19 conference to study the different numerical schemes devoted to the Compressible Navier-Stokes equations (used to model gas dynamics flow).
 - Teaching mathematics courses for first and second-academic-year students.

Researcher | INRIA

- Sept 2017 – Dec 2018 Paris, FR
- Developing new models to understand the Tsunami phenomena better (publication).
 - Teaching mathematics courses for Engineering students at Polytech Sorbonne.

PROJECTS

Here are some projects I did as a part of my self-training in Data Science. Full list on my [GitHub-Page](#).

Data Science with Python | 2022

The aim of this project is to fit a linear regression or a Ridge Regression model to predict the price using the list of features given on a dataset that contains house sale prices for King County.

Machine Learning with Python | 2022

In this project, we use classification models such as K Nearest Neighbor(KNN), Decision Tree, Support Vector Machine, or Logistic Regression to determine whether a loan is paid off or based on a dataset about past loans.

Car's generation detection | 2022

The aim of this project is to predict the generation (I or II) of some unknown generation cars based on the features of each generation.

SKILLS

- Project management.
- Conducting research and publishing papers in international academic journals (Google Scholar Profile).
- Development of artificial intelligence algorithms.
- Representing the universities at conferences and delivering presentations when necessary.
- Build and maintain a successful international collaboration across countries.
- A peer reviewer of scientific manuscripts.