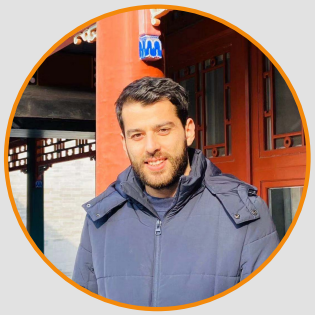

# BILAL AL TAKI

## Research Scientist


Mars 22, 1991 | French and Lebanese | 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

Data Visualization | Python | SQL | Machine Learning | Tensorflow | R | Deeplearning | Latex | Github

## RESPONSIBILITIES

- Master Intership Co-Supervision of C. El Hassanieh at INRIA.
- Participation in the jury of "Advance Coucours" at EPITA.
- Part-Time-Teacher at ESILV.

## LANGUAGES

**Arabic**
**French**
**English**

## HOBBIES

- Basketball and Badminton
- An insight into Human behavior

## 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

### Visiting Researcher | TU Kaiserslautern

Sept 2022–Present | Kaiserslautern, DE

- Studying non-Newtonian fluids for medical and environmental applications.

### Research and Teaching Fellow | Sorbonne University

Sept 2021– Aug 2022 | Paris, FR

- Teaching mathematics courses for first and second-academic-year students.
- Establishing new mathematical results concerning problems related to Landslide phenomena.

### Researcher | Peking University

Jan 2020 – Aug 2021 | Beijing, CN

- Developing new achievements to understand the shoreline problem in environmental problems.

### Research and Teaching Fellow | Sorbonne University

Jan 2019– Aug 2019 | Paris, FR

- Teaching mathematics courses for first and second-academic-year students.
- 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).

### Researcher | INRIA

Sept 2017 – Dec 2018 | Paris, FR

- Teaching mathematics courses for Engineering students at Polytech Sorbonne.
- Developing new models to understand the Tsunami phenomena better.

## PROJECTS

Here are some projects that 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 in 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 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.