



Zihao-Éric GUO

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📍 Paris, France

🏆 Kaggle Expert

🏠 [Welcome to my homepage](#)

IT SKILLS

Python (NumPy, Pandas, Sklearn, PyTorch, Plotly), R, C/C++, NoSQL, MATLAB, Power BI, Catia, CAD

Hilbertian analysis, Stochastic Process, statistical learning, Bayesian methods and hierarchical models, Probabilistic numerical methods, Databases, Uncertainty Quantification, Algorithms & Programming, Physics and Fluid Dynamics, Data Science & Machine Learning, Optimization, Signal and Systems, Finite Elements.

LANGUAGES

- **Chinese:** Native language
- **English:** Fluent (GRE 326)
- **French:** Fluent (DALF C1)
- **Spanish:** Beginners

INTERESTS



Aces

- Team spirit;
- independence and adaptability;
- High learning capacity.



Student engineer at École Centrale de Nantes

Interested in: Data mining, Explainable AI, Biostatistics



Data Engineer | Data Scientist



EDUCATION

Since 09/2021

Nantes, France

École Centrale de Nantes

Generalist Engineer Degree - Applied Mathematics Options

In Graduation Internship, Expected graduation date: 10/2023

10/2020 – 07/2021

Amiens, France

Université de Picardie Jules Verne

Bachelor of Engineering, Production Optimization Tools

- Top-ranking, in charge of coordinating teachers and Chinese students in need.

Shenyang Aerospace University

Bachelor of Engineering, Mechanical Design, Manufacturing and Automation

- The average GPA : 3.5/4, Top 3%, outstanding college students in Shenyang area.

- The experience as Student Council President.

09/2017 - 10/2020

Shenyang, Chine



PROJECT EXPERIENCE AND INTERNSHIP

Internship – Biostatistics Researcher Inter ([EMBL-EBI](#))

Since 04/2023

2023

Cambridge,

UK

- The research topic is “Simulating the evolution of genomes along large, short-branch phylogenetic trees”

Keywords: R/Python, Sampling algorithm, Cluster

Internship – Data engineer ([IFPEN](#))

04/2022 – 08/2022

2022

Paris,

France

- Analysis of traffic badge validation data and create a dashboard.
- Comparison of data obtained from a traffic model (MATSim) to explore errors.
- Using time series models (Sarimax, Neuralprophet...) to analyze the impact of influencing factors and correct the statistics by predicting the data.

Keywords: Django, HTML/CSS, MongoDB, Git, Pytorch, Statsmodels

Project - Analysis of Tencent product user churn

11/2021 – 01/2022

2021

Nantes,

France

- To predict the user churn rate and provide a foundation for the churn recovery strategy.

- A classification model is developed, the model is evaluated with roc_auc_score, and the parameters are tuned with GridSearchCV.

Keywords: Sklearn, Machine Learning

Project – Build a student management system

12/2019 – 02/2020

2020

Shenyang,

Chine

- Built in VC++ 6.0, Windows platform, utilizing the C language, using structures to encapsulate variables and chained tables for modification operations makes it easier to manage fundamental student information.

Keywords: C language, OOP



SCIENTIFIC RESEARCH EXPERIENCE

Research - Adjustment of Bayesian network library

Nantes Digital Science Laboratory (LS2N)

Oct.22 - Apr.23

Nantes, France

Keywords: C++, Git, Linux, Bayesian Networks

Essay - CNN text classification method based on simulated annealing method

ACM - International Conference Proceeding Series (ISBN: 978-1-4503-8432-2)

Essay - Mechanical gyroscope based one-rotor aircraft modification design

Fortune Time (2019.04), ISSN: 1004-0447

Competition - Based on non-stationary thermal conductivity, the design of special garments for high-temperature operations

2019 China Mathematical Modeling Competition Second Prize in Liaoning Province