[Github, ícones Do Computador, Git png transparente grátis](https://github.com/zeio99)*[](https://www.linkedin.com/in/zihao-%C3%A9ric-g-850167211/)*

**09/2021 – 09/2023**

*Nantes, France*

**Since 10/2023**

*Paris, France*

**09/2017 – 07/2021**

*Amiens, France*

*Shenyang, China*

**[Institut Polytechnique de Paris](https://www.ip-paris.fr/en" \t "_blank)**

*GRAPH-BASED REINFORCEMENT LEARNING OPTIMIZATION TO OPTIMIZE URBAN MOBILITY*

**École Centrale de Nantes**

*Generalist Engineer Degree - Applied Mathematics Options*

**Université de Picardie Jules Verne**

*double diploma-Bachelor of Engineering, Production Optimization*

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



**PROJECT EXPERIENCE AND INTERNSHIP**

**2022**

*Paris,*

***France***

**2023**

*Cambridge,*

***UK***

**2020**

*Shenyang,*

***Chine***

**2021**

*Nantes,*

***France***

**Internship – Biostatistics Researcher Inter（**[**EMBL-EBI**](https://en.wikipedia.org/wiki/European_Bioinformatics_Institute)**）**

*Since 04/2023*

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

Keywords： R/Python, Sampling algorithm, Cluster, bash(UNIX)

**Internship – Data engineer（**[**IFPEN**](https://www.ifpenergiesnouvelles.com/)**）**

*04/2022 – 08/2022*

• 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*

• 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*

• 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**



**EDUCATION**

**Oct.22 - Apr.23**

*Nantes, France*

**Research - Multi-task learning for Bayesian Networks**

*Nantes Digital Science Laboratory (LS2N)*

Keywords：C++, Linux, Bayesian Networks, Transfer learning

**Research - Extreme value theory with environmental applications**

*École Centrale de Nantes (ECN)*

Keywords:Statistical Modeling

**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*

*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.*

**IT SKILLS**

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

[Welcome to my homepage](https://zihao-guo.github.io/)

Paris, France

+33 (0)765241550



Kaggle Expert

[zihao.guo@eleves.ec-nantes.fr](mailto:zihao.guo@eleves.ec-nantes.fr)

**LANGUAGES**

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

**INTERESTS**



Pre-Doc at Télécom Sud-Paris

Interested in: Reinforcement Learning, Explainable AI

**Data Engineer | Data Scientist**

**Zihao-Éric GUO**

**Aces**

*• Team spirit;*

*• independence and adaptability;*

*• High learning capacity.*

