

Zihao-Eric 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.



Pre-Doc @ Institut Polytechnique de Paris Interested in: Stochastic Optimization, Math Programming





EDUCATION

Since 11/2023

Institut Polytechnique de Paris

Paris, France

Preserving graph performance in an exogenously perturbed environment

09/2021 - 09/2023

École Centrale de Nantes

Nantes, France

Generalist Engineer Degree - Applied Mathematics Options

09/2017 - 07/2021

Université de Picardie Jules Verne

Amiens, France

double diploma-Bachelor of Engineering, Production Optimization



PROJECT EXPERIENCE AND INTERNSHIP

Internship – Biostatistics Researcher Inter (EMBL-EBI)

2023

Cambridge,

UK

• 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)

04/2022 - 08/2022

12/2019 - 02/2020

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

2021

2020

Shenyang,

China

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

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, 00P



SCIENTIFIC RESEARCH EXPERIENCE

Research - Multi-task learning for Bayesian Networks

Oct.22 - Apr.23

Nantes Digital Science Laboratory (LS2N)

Nantes, France

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 - Restoring Accessibility During Urban Rail Disruptions via Bus Network

Redesign Transportation Research Board (TRB) 104th Annual Meeting

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