

# IFT 數據面試

---

- [website](#)
- [interview questions](#)
- [deepl](#)
- [quillBot](#)

## 關於自己

---

### Why there is a Gap between 06/2010 and 09/2013

Basically, I went to work and accumulated financial backup. Applied master degree would be the next step.

### 自我介紹

Hello, my name is Choi Chong Ha, I graduated from National Tsing Hua University in Taiwan in Mathematics after Bachelor, and then receive my mphil degree from the Hong Kong University of Science and Technology in Mathematics.

In terms of work experience, I previously worked as a clerk at the Macau University of Science and Technology's business school, where I provided administrative support and assisted event organization. I currently work with Macao Meteorological and Geophysical Bureau, where my primary responsibilities include data analysis and data visualization. For instance, I am able to select data from database by using sql and develop a website with dynamic and interactive statistical diagrams for data visualization, and using Python for data analysis, I made a typhoon track probability map.

### 興趣

I enjoy reading; for instance, I recently finished reading volumes 1 and 2 of "The Three-Body Problem,". Despite I studied math. science fiction is not my preferred novel style. I would rather read novels describing people emotions. "Love in the Time of Cholera" is another choice.

### 不是數據分析師，為什麼要考

I have data analysis experience in my current job and I found that data analysis with statistics or further machine learning would match my primary study. Furthermore, the way to find and conclude the basic principle behind data would interest me and give me a sense of achievement.

### 離職原因是什麼

Macao Meteorological and Geophysical Bureau focuses mainly on weather observation, and I found that data analysis with statistics or further machine learning would match my primary study. In addition, I find that joining a professional team helps me to improve my data analysis abilities.

### 怎樣才是一名合格的數據分析師

Being a qualified data analysis is a long-term process . There are a lot of traits would be required. First, find the valued questions that draw public attention and help decision-making for government. Second, applying academic methods to achieve the purposes required comprehensive abilities. When outcomes of analyzing data do not fit the expectation, finding the reasons and modifying the methods are vital. Finally, displaying results with concise articles and interactive and dynamic diagrams would be better to delivery the messages.

## 工作中的挑戰和應對 (成功)

My colleague contacted the vendor for the storm surge and typhoon forecast products. One day, he asked me about a math/statistical algorithm that the vendor used to calculate the typhoon track probabilities. I tried to explain the professional terms, such as integral and 1-sigma for 70 percent, to him. Furthermore, my colleagues discovered that the outcome differs from that of the ECMWF, an authoritative organization in numerical forecasting. I was interested in those problems and found information from the Hong Kong Observatory's YouTube channel, and I succeeded in following the algorithm introduced to generate the typhoon track probabilities map similar to ECMWF.

## 工作中的挑戰和應對 (失敗)

This job's first mission was to build up a weather numerical model and merge observational data into models, named LAPS. Rare information can be found online. I could only read the code from the model and found the rules how to create suitable formatted data and inject into the model. However, after several months, Laps announced that it would not be updated anymore. As a result, predicted the trend in industry is crucial, and understanding the fundamental principles would aid in problem solving.

## Data analysis project

I joined a project that aimed to describe airport observatory data by the frequency of occurrence in a certain range and period. Citizens can view the reports on the SMG website. First, I mainly select data from databases by using SQL. Second, I clean up the null and useless data and organize it from month to month, hour to hour, and various value ranges by programming. Finally, I applied the Python library to create a formatted table on PDF.

## 最大的優勢

I love studying and challenges. Encountering new challenges would push me to think outside the box and more creative, new ideas and methods will be found in the processing in order to tackle them.

## 最大的劣勢

I am not skill in sports. However, during the previous three years, the COVID-19 epidemic's effects made me realize how important health is. Physical fitness is the best defense, so I started jogging.

I would rather reading than speaking. I like stay alone and as a result i have less communication with others. I still recognized that the importance of team-work , therefore, i would share my difficulties or outcomes in time.

## Where do you see yourself in five years?

我希望在數據分析上有所發展, 我有結實的數學基礎和有寫程序的經驗, 現在還在不斷學習編程技和機器學習的理論, 相信將來會有很好的實踐

I see my long-term career in data analysis. I have a strong background in math and now working at programming. Moreover, I plan to study new programming techniques and theories of machine learning. I'm sure I'll have a successful practice in the future.

What are your career aspirations?

How do you prioritize your work?

對應聘的公司的了解

---

您認為我們公司有哪些尚待改進的地方嗎？

I mainly learn about the mission on websites. I found that the website was designed like a newspaper or academic report. The majority of the content is described in text rather than in clearly dynamic graphs showing important indexes, as on the websites of the Macao Government Tourism Office and the Statistics and Census Service. However, if the site visitors include the general public, the websites from the Statistics and Census Service are more attractive.

Why do you want to work at this company?

There are three points why I want to work at IFT.

First, I saw MTSI and other useful indexes on ITRC, and there are many dynamic graphs showing various comparisons, which is my field. I am able to build a website and i have my own blog.

Second, MTSI study is adopted from the American Customer Satisfaction Index (ACSI). Applying thesis and recreating in macau version is inspiring.

Finally, there is a new graph on the MTSI website that describes the joint matrix of sector TSI and its relative contribution to overall MTSI. This implies the project is steadily improving, which encourages me to join.

有甚麼問題

I found that MHRM is related to human resources instead of focusing on tourism. Hence, is there room to study topics other than tourism?

對我們公司有甚麼了解

[itrc](#) ITRC is the policy research and industry development unit of the Macao Institute for Tourism Studies (IFTM). The Centre serves as a management and public policy think-tank and a knowledge provider for tourism and hospitality related research.

Our activities include conducting policy studies, monitoring and evaluation studies, research design and opinion surveys, reporting of research findings, as well as organizing seminars.

There are four indexes posted online. The First is Macau Tourism Carrying Capacity Study The Second is Macau Tourist Satisfaction Index(MTSI)

The MTSI measures visitors' satisfaction across 10 tourism related sectors. This includes hotels, restaurants, transportation, heritage attractions, non-heritage attractions, retail shops, public services (e.g. customs and

immigration), events, tour operators and guides, and gaming. An overall satisfaction index (or TSI) for the tourism industry in Macao is then estimated based on the sectoral results.

The third is Macau Visitor Profile Survey (VPS)

The VPS is a year-round survey that studies the trip characteristics, purpose of visit, source of gaining travel information, travel arrangement and activity, spending behaviour, length of stay, source market, etc. of the visitors.

The fourth is Macao Human Resource Monitor Survey (MHRM)

## 應聘的專業知識-統計

---

中心极限定理，大数定律

特征值和特征向量的定义

數據分析思維

[link](#)

對未來數據分析方向的發展思維和想法

數據預處理

[link](#)

迴歸分析

- [link](#)

一些統計學名詞解釋

[link](#)

## 應聘的專業知識-項目管理

---

## 應聘的專業知識-人際溝通

---

## 新聞

---

新馬路任我行

[力報](#)

[新聞局](#)

## 復

[link](#)

1. 減免稅務及規費，以減輕企業及居民負擔；
2. 推行中小微企援助及息補貼，以扶持企業存續；
3. 加強民生措施，支援弱勢家庭；
4. 提升技能培訓、實施以工代賑、帶津培訓；
5. 推出電子消費券，

幾乎全部於外出時或在有人的地方戴口罩（96.5%）；比平時多洗手（91.5%）、多清潔消毒家居或工作場所（76.7%）；全部取消或部份取消團體活動或聚會（97.5%）；減少外出（92.7%）。

## 項目策劃

---

[https://www.hkeaa.edu.hk/DocLibrary/HKDSE/Subject\\_Information/apl/Services/655/Distinction/655-EX-8-2013-D.pdf](https://www.hkeaa.edu.hk/DocLibrary/HKDSE/Subject_Information/apl/Services/655/Distinction/655-EX-8-2013-D.pdf)

## 分析

---

### 網頁

- 項目設計
- 收集數據
- 數據庫
- 數據可視化
- 統計分析