

Head of School Coffee Morning

Traveler's Tales Financial Update

Dr. Malcolm Pritchard – Head of School



13 March 2024



Academy Update: 2023-24

- Program enhancements: Shek Pik & MBL 2.0
- 2024-25 Budget
- Tuition fee increases
- Comparisons
- Teacher Recruitment for 2024-25
- College Visits





Saturday, 18 November, 2023 | 11:00A.M. to 4:00P.M.
2023年11月18日 (星期六) | 上午11:00 - 下午4:00



ISF 20th Anniversary Celebration at The Jam 2023
弘立二十週年慶典暨 Jam 2023
ISF School Fair 弘立校園遊藝會



Secondary Basketball Courts
中學籃球場

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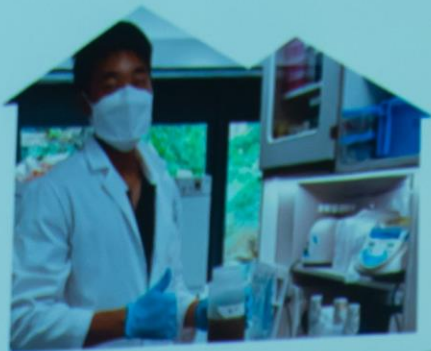
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Grade 12 Fire 十二年級火



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The ISF Academy
20th Anniversary Celebration
弘立書院二十週年慶典



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LEVEL 1 SOUTH LOBBY
↓ Exhibition Halls A-F Rooms 1-25 ↓
← → ← →

AGU2023

AGU2023

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Measuring Chemicals from Hand Washing Various Textile Materials
Allison Wong, Yvonne Chan, Yvonne Chan, Yvonne Chan

Introduction
 Hand washing is an essential part of daily life. It is a simple yet effective way to prevent the spread of germs. However, the chemicals used in hand sanitizers and soaps can be harmful to the environment. This project aims to measure the amount of chemicals used in hand washing on various textile materials.

Method
 The project involved using a gas chromatograph-mass spectrometer (GC-MS) to analyze the chemical composition of hand sanitizers and soaps. The results showed that different materials absorb different amounts of chemicals, with synthetic materials generally absorbing more than natural materials.

Investigating the Ratio of Nitrogen-Fixing and Cellulose-Degrading Bacteria in an Overall Hydroponic Plant System
 Vincent Pan 0013094@student.edf.edu.hk
 Abstract Number: 1234648

Introduction

A hydroponic plant system is a soilless method of growing plants. It is a sustainable and efficient way to produce food. However, the lack of soil can lead to nutrient deficiencies. This project aims to investigate the ratio of nitrogen-fixing and cellulose-degrading bacteria in an overall hydroponic plant system.



Method

The project involved collecting soil samples from various locations in Hong Kong. The samples were then cultured on different media to identify nitrogen-fixing and cellulose-degrading bacteria. The results showed that the ratio of these bacteria varies significantly between different locations.

Table 1: Ratio of Nitrogen-Fixing and Cellulose-Degrading Bacteria in Hong Kong

Location	Sample	CFU	CFU	CFU
City Farm	Sample 1	1.2E+08	1.5E+07	1.8E+06
	Sample 2	1.5E+08	1.8E+07	2.1E+06
Building	Sample 3	1.8E+08	2.1E+07	2.4E+06
	Sample 4	2.1E+08	2.4E+07	2.7E+06
Outdoor Living Place	Sample 5	2.4E+08	2.7E+07	3.0E+06
	Sample 6	2.7E+08	3.0E+07	3.3E+06

Discussion

LB plates allow the growth of a plethora of bacteria due to their traits of being rich with nutrients (Figure 2). CMC plates are designed only for the growth of cellulose-degrading bacteria. Bacteria are tested for this function by doing an iodine stain which will give clear zones as seen in figure 3. M710 plates only allow the growth of nitrogen-fixing bacteria (Figure 4).

In Table 1, which showed the CFU (colony forming unit) of bacteria growth on LB, CMC and M710 plates. All plant samples which had bacteria growth on LB agar LB plates compared to those that grew on M710 had an average ratio of 3:1, which means that nitrogen-fixing bacteria are crucial for many hydroponic plant's survival and ability to sustain.

Comparing bacteria growth on LB and CMC plates, there was an average ratio of 5 bacteria on LB 1 bacteria on CMC out of the nine plant samples which were investigated. This shows that cellulose-degrading bacteria play a crucial part in recycling nutrients and providing the plant with newly attained energy, but it must be understood that plants can also derive energy from other sources via photosynthesis. Additionally, it can also be seen that plant samples/sources via don't regularly change their water and were older often had more cellulose-degrading bacteria growth. These bacteria come into use the most to help decompose dead or rotting material. If the plant's water was changed regularly, the chances of plant material needing to be broken down to prevent build-up would be lower. Thus, there would be a lower chance of cellulolytic bacteria being in their system.

Conclusion

The data collected shows that hydroponic plants require nitrogen-fixing bacteria due to their inability to derive nitrogen from soils, unlike their on-land counterpart plants. Cellulose-degrading bacteria, on the other hand, isn't always required as plants can derive energy from other sources and still sustain.

This investigation links to SDG goal #15: life on land. Experimenting with and studying various bacteria in a hydroponic plant environment advances our understanding of how microbes can influence plant health, growth, and biodiversity. A better understanding of plant-microbe symbiosis can help humans understand how to protect and restore ecosystems, preserve biodiversity, and ensure the long-term use of land and terrestrial resources. Observing Figure 1 where all hydroponic farms in Hong Kong are located, we can clearly identify a lack of farms in more populous areas, hence this project can potentially help raise awareness to these new agriculture methods and improve agriculture efficiency.

Acknowledgements

This work was funded under the ISF (Innovation and Science Fund) Program. Special thanks to Dr. Ping, Ms. Grace, Mr. Ming, Dr. Griffin, and Ms. Isabella.





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NOTICE
NO TRESPASSING
18
11/11/2018


BAAHINA EXPERIENTIAL
LEARNING LIMITED
11/11/2018







Shek Pik: Short-Term Tenancy

- Five-year tenure
- Restoration not modification
- Conservation of trees on site
- Community outreach and education

Molecular Biology Laboratory 2.0







GAROLINA
carolina.com

Vacuum Flask Tray

Misc

Avantec

IA

APP

AB Applied Biosystems
Step One Plus 9600

Microplate

Microplate

Water bottles











ISF AI Laboratory

- Establish AI Lab at ISF
- Understanding of AI technology
- Large Language Models
- Prompts
- AI applications in learning
- Chatbots: design and use
- Wider implications of AI in the world



Learning Analytics System (LAS)



Financial Planning for 2024-25



ISF Academy in 2024-25

Financials and Tuition Fees

- Budget
- Tuition fee increases
- Comparisons



2024-25 Budget

	<u>2023-24</u>		<u>2024-25</u>	
	<u>HK\$'000</u>	<u>%</u>	<u>HK\$'000</u>	<u>%</u>
<u>Income:</u>				
Tuition fees	515,026	79%	570,204	85%
Other income	68,841	11%	76,444	12%
Subsidies from the Foundation	64,041	10%	21,389	3%
	<u>647,908</u>	<u>100%</u>	<u>668,037</u>	<u>100%</u>
<u>Operating Expenses:</u>				
Salaries and benefits	440,044	73%	467,481	73%
Other expenses	164,795	27%	171,540	27%
	<u>604,839</u>	<u>100%</u>	<u>639,021</u>	<u>100%</u>
<u>Non-Operating Expenses:</u>				
	<u>48,495</u>		<u>30,503</u>	
Net Deficit	<u>(5,426)</u>		<u>(1,487)</u>	



Proposed Increase in Tuition Fees

	<u>2023-24 (HK\$)</u>	<u>2024-25 (HK\$)</u>
Tuition Increase (%)	4.5%	4.5%
Foundation Year and G1 – 5	221,130	231,080
Middle Years Program (G6 - 10)	256,910	268,470
Diploma Program (G11 - 12)	279,290	291,860



Foundation Support

Shuyuan

- Courses / programs – Makerspace, Molecular Biology, Environmental Studies and Sustainability Initiatives.
- Consulting fees – Honorarium for university faculty and external consultants.
- 2024-25 Budget – Operating expenses HK\$11m.

Shek Pik

- Seed funding – HK\$5m.



ISF Pre-School

Financials and Tuition Fees

- Budget
- Tuition fee increases
- Comparisons



2024-25 Budget

	<u>2023-24</u>		<u>2024-25</u>	
	<u>HK\$'000</u>	<u>%</u>	<u>HK\$'000</u>	<u>%</u>
<u>Income:</u>				
Tuition fees	46,251	97%	48,791	97%
Other income	1,289	3%	1,642	3%
	<u>47,540</u>	<u>100%</u>	<u>50,433</u>	<u>100%</u>
<u>Operating Expenses:</u>				
Salaries and benefits	29,033	68%	32,616	68%
Other expenses	13,382	32%	15,588	32%
	<u>42,415</u>	<u>100%</u>	<u>48,204</u>	<u>100%</u>
<u>Non-Operating Expenses:</u>				
	<u>6,093</u>		<u>7,640</u>	
Net Deficit	<u>(968)</u>		<u>(5,411)</u>	



Proposed Increase in Tuition Fees

	<u>2023-24 (HK\$)</u>	<u>2024-25 (HK\$)</u>
Tuition Increase (%)	4.5%	4.5%
Half Day Program (Year 1 and 2)	140,580	146,905
Extended Program (Year 2)	281,160	293,810



Teacher Recruitment for 2024-25



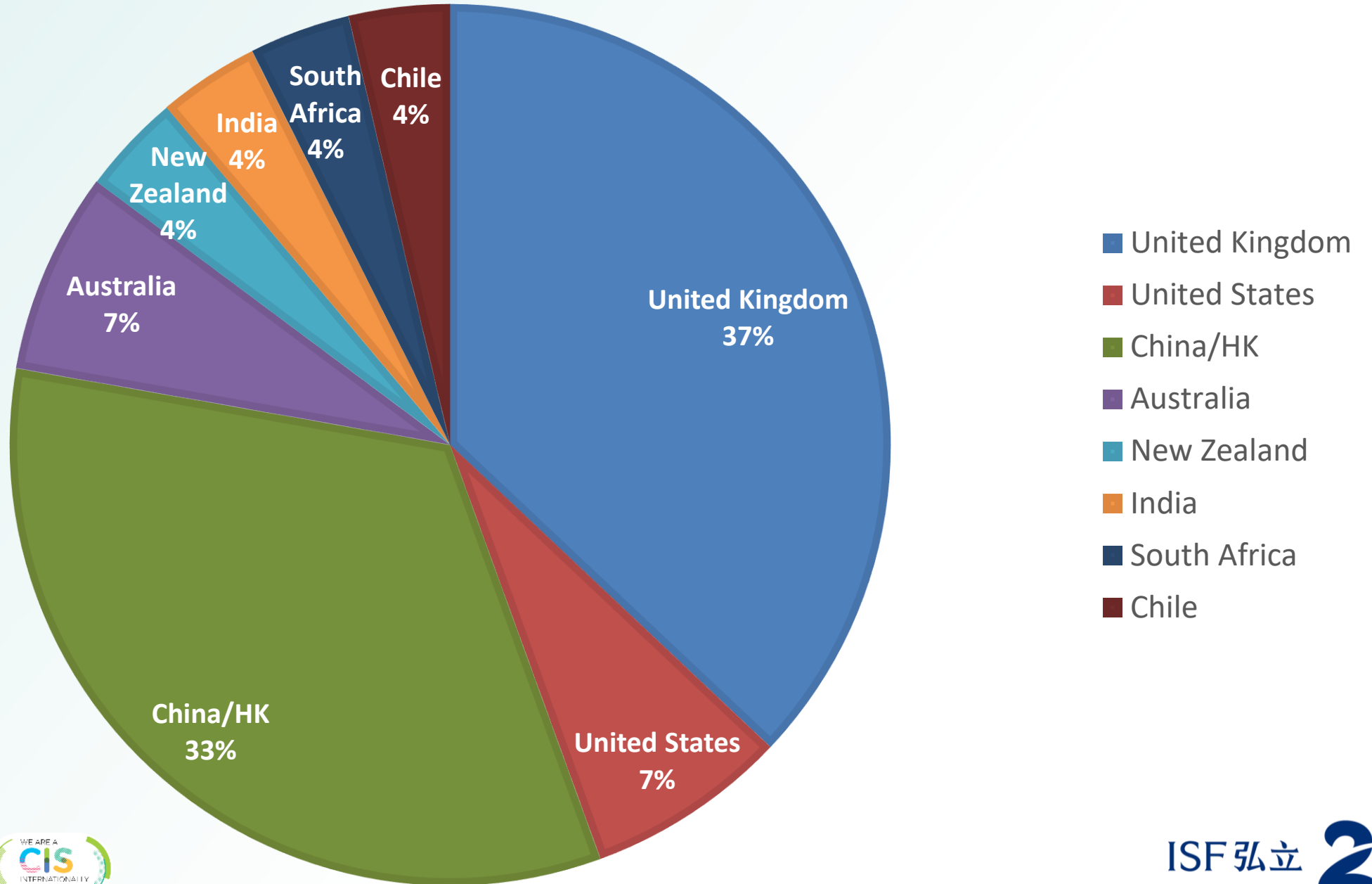
Major Objectives: Human Resources

Current Teachers in 2023-24:
Retention Rate for new
academic year 2024-25

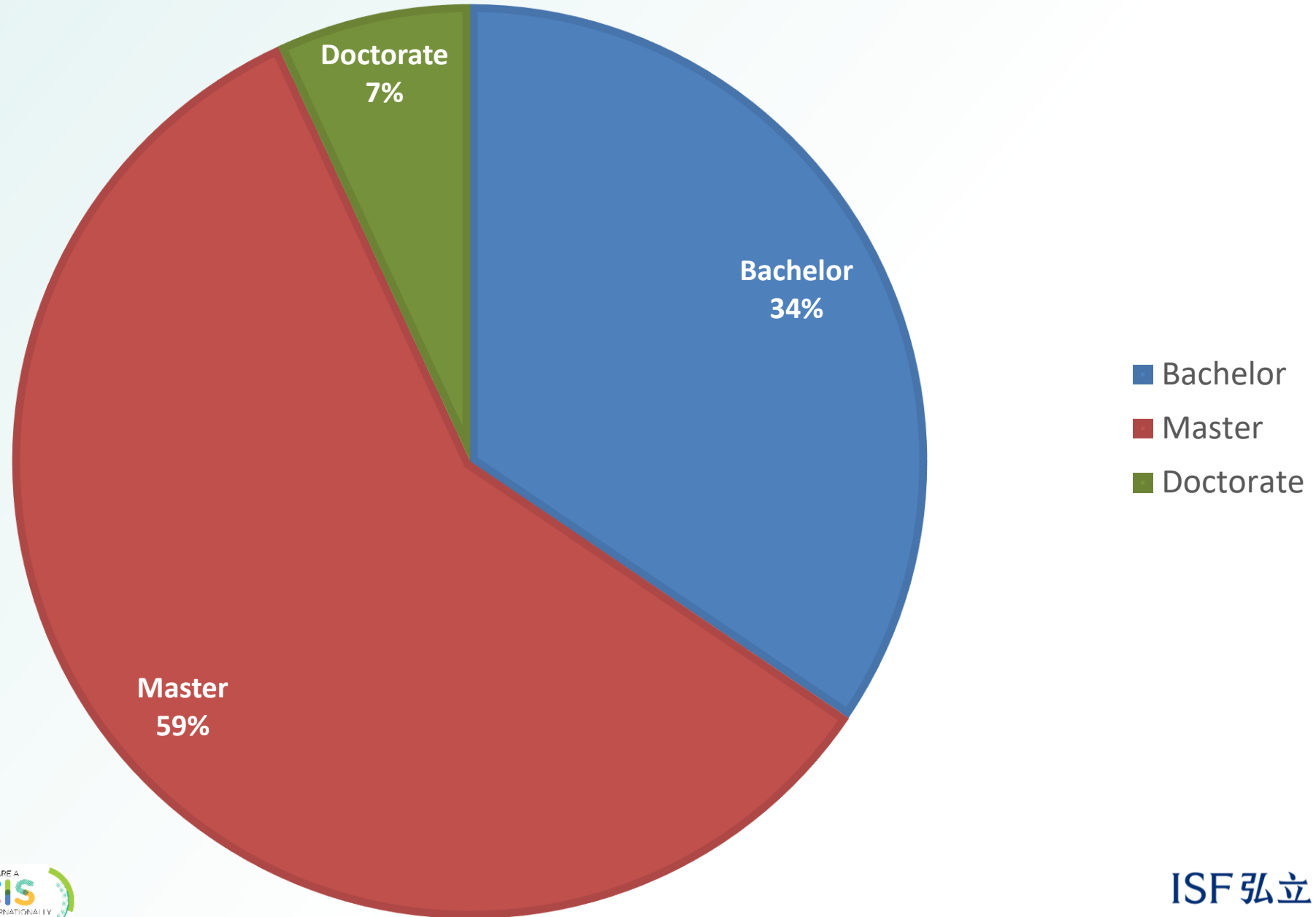


96.03%

TEACHER RECRUITMENT 2024-25: NATIONALITY



TEACHER RECRUITMENT 2024-25: QUALIFICATIONS



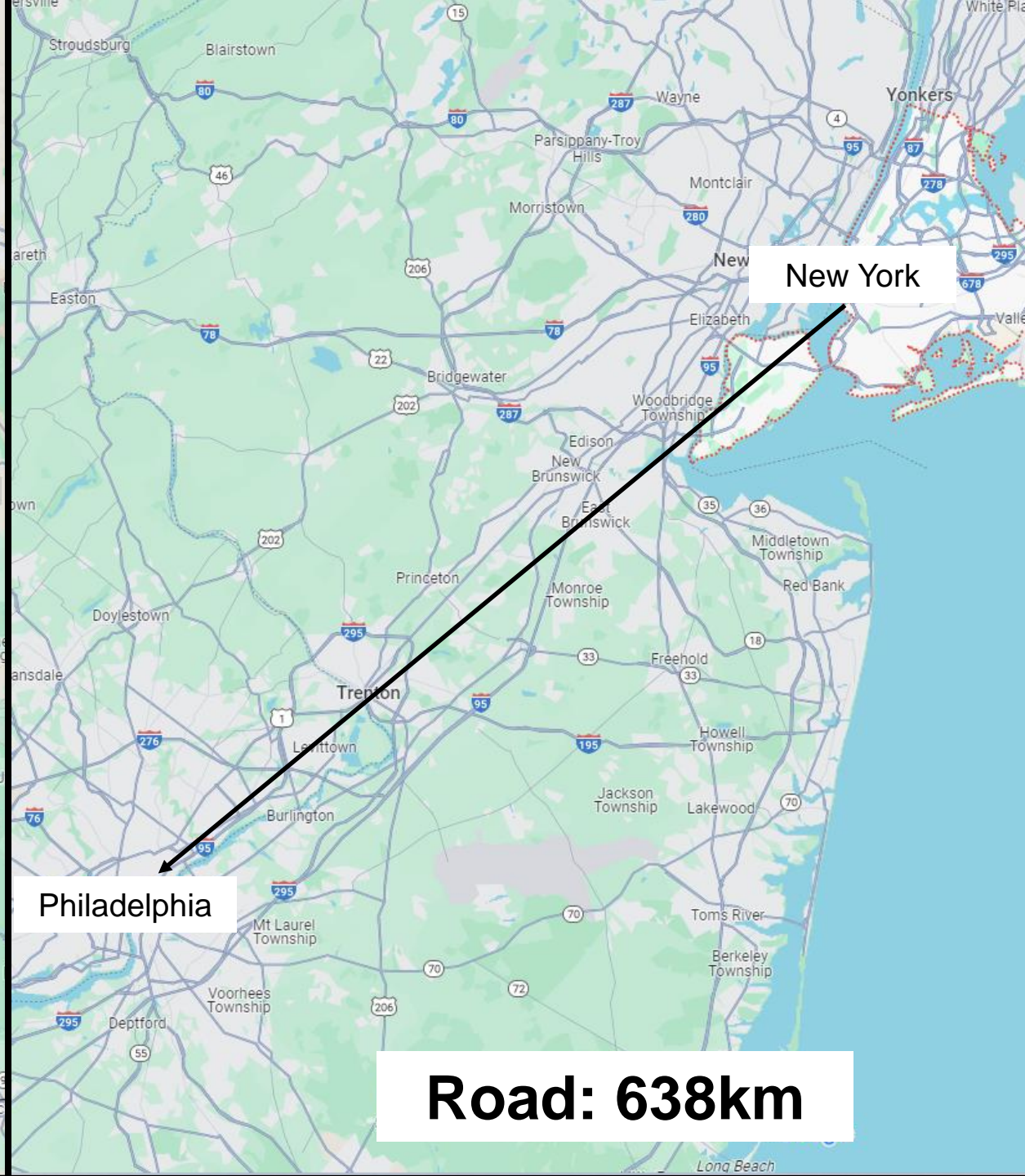
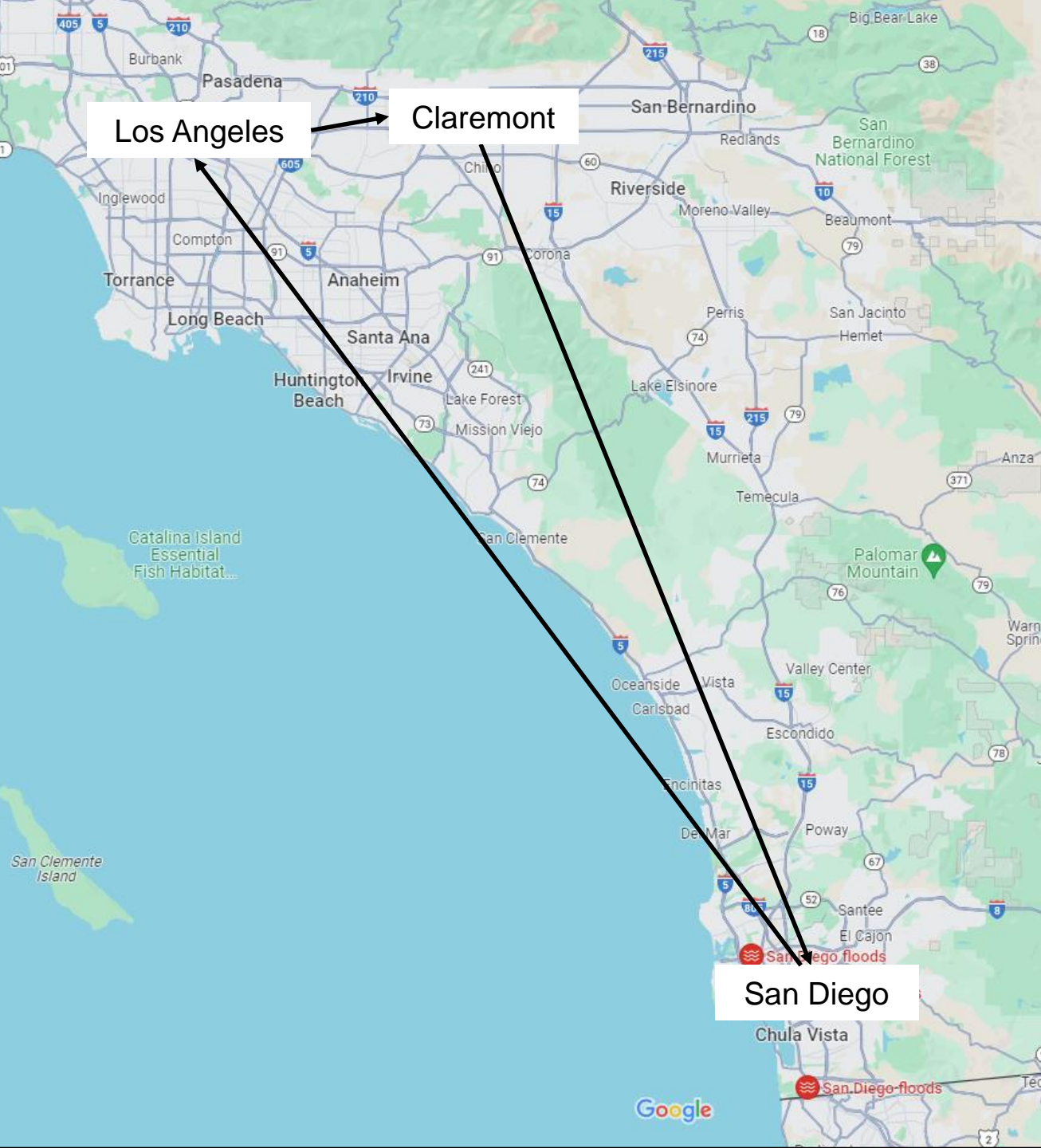
Traveler's Tales: ISF HOS Visits to Universities





Travel Period	Destination
Sep-Oct 2023	Dublin
Dec 2023	Vancouver, Kelowna & San Francisco
Jan 2024	Melbourne & Bangkok
Jan-Feb 2024	London, Toronto, Boston, New York, Philadelphia, Los Angeles, Claremont & San Diego

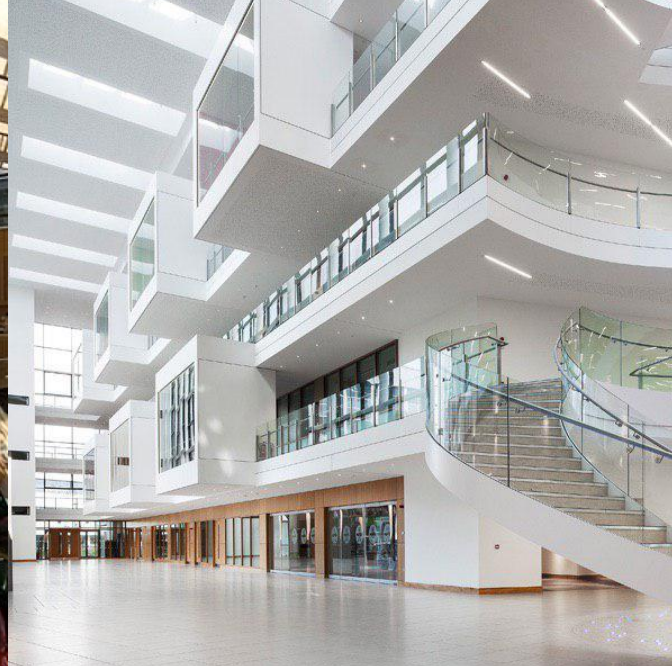
Air: 91,230km



Ireland









Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



Vancouver







THE UNIVERSITY
OF BRITISH COLUMBIA

Okanagan Campus





San Francisco





ISFL立

Santa Clara





London













Toronto









Boston











ALAMOS
THE BIRDS OF CATYNA
MALBEC
MENDOZA ARGENTINA

Lapostolle



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the dream





New York





Pennsylvania





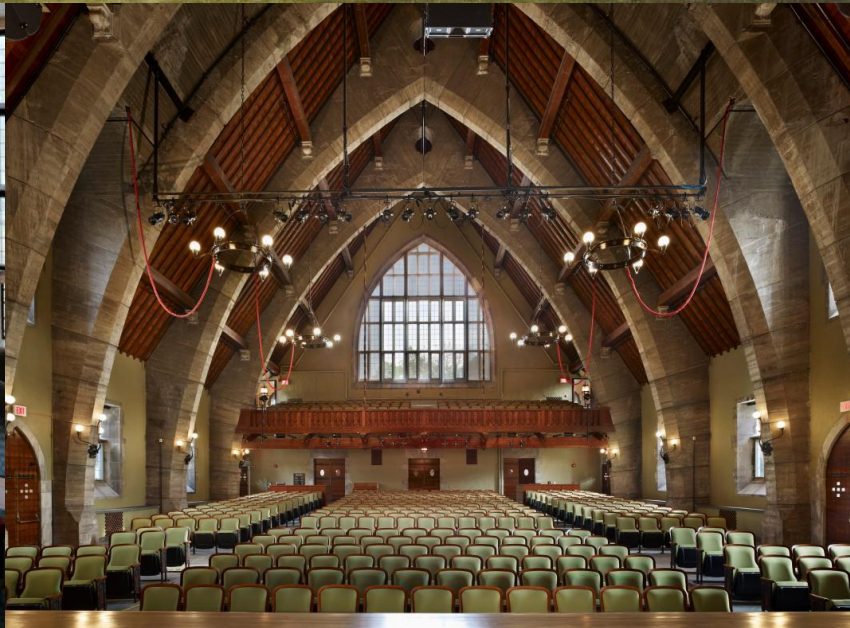


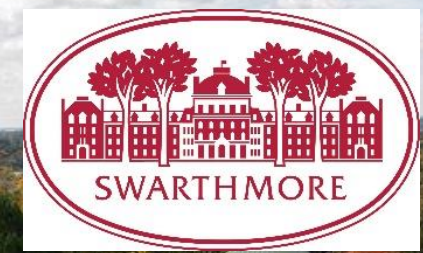

Haverford
COLLEGE





**BRYN
MAWR**
COLLEGE





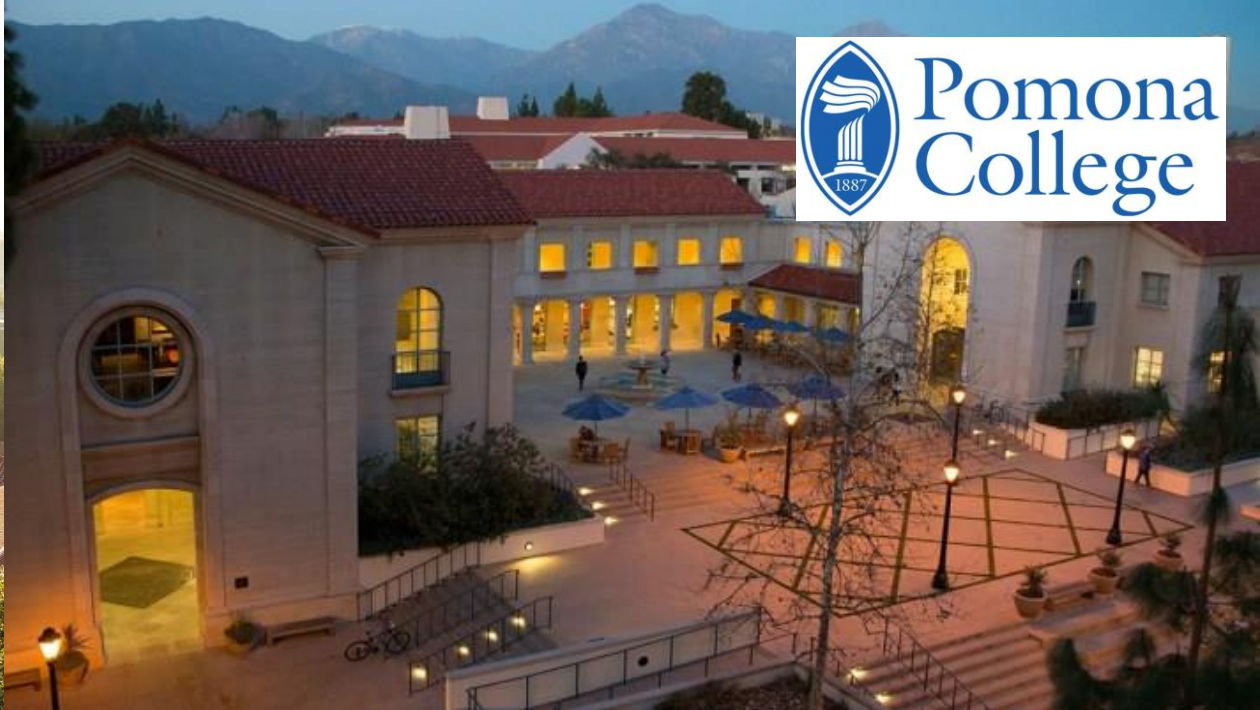
California













SCRIPPS
COLLEGE









UCI University of California, Irvine





TREASURE ISLAND



Written by
Robert Louis Stevenson

Adapted by
Phil Willmott

This amateur production of
"Treasure Island (Willmott)" is
presented by arrangement with
Concord Theatricals Ltd.
on behalf of Samuel French Ltd.
www.concordtheatricals.co.uk

Date : May 30 and 31, 2024
Time : 6:00p.m.
Venue : C Block Auditorium
Fee : HK\$200



日期 : 2024年5月30至31日
時間 : 晚上6時
地點 : C大樓劇院
票價 : 港幣\$200元

Ticketing website
購票網頁



DP Arts Week Exhibition Night

March 14, 2024

6:00-8:30pm @CKS

**Featuring Artworks, Music
Performances by:**

Angus Chan, John Chan, Larry Chan,
Chloe Chau, Allie Chen, Alex Chu, Erica
Gong, Sabrina Hau, Ethan Ho, Queena
Ji, Sunny Jiang, Sophia Jiang, Celine
Lee, Jodie Lee, Karena Lei, Jasmine
Leung, Dani Lin, Sophia Lin, Stacy Lu,
Serah Ma, Sylvia Miu, Rhea Ng, Julia
Shi, Myleigh Slom, Cassie Song, Irma
Sung, Michelle Wang, Belle Wong,
Valerie Wong, Delphine Wu, Jingyan
Xie, and Kaya Zhang



DP ARTS WEEK
March 11-15, 2024

Poster created by: Karena Lei

ISF SILENT AUCTION 2024



2024年弘立無聲拍賣



Scan the QR code 掃描二維碼

to make an online bid 進行網上競拍



For enquiries, please contact

如有查詢，請聯繫

info@isfpta.org



A silent auction will be running from now until April 12. Some of the auctioned items will be showcased at the PTA Annual Event. All proceeds from the silent auction will be given to support ISF.

March 12 - April 12, 2024

Bidding will close on April 12 at 2:00 p.m.

The winners will be notified by

3:00 p.m. on April 12, 2024

Payment details will be provided by

April 19, 2024



無聲拍賣將由即日起至4月12日舉行。部份拍賣品將在家教會年度活動中展示。無聲拍賣的所有收益將會用作支持弘立書院。



2024年3月12日至4月12日

競拍截止時間為4月12日下午2:00

得標者將於2024年4月12日

下午3:00前收到通知

付款資料將於

2024年4月19日前提供

MAKE A BID, SUPPORT ISF! THANK YOU!

競拍並支持弘立! 謝謝!



2024 PTA Family Service Day

A Celebration of Thankfulness, Compassion and Cultural Heritage

Date: Saturday, March 16

Time: 9:00 – 11:30 a.m.

Venue: Charles Kao Square

Participants: All Primary and Secondary students and families

Highlights:

- Pack goody bags with quick-dry towels, socks, beanies, scarves, waterproof mats (Goody bags will be delivered to the elderly at Care & Service Elderly Home and the homeless through ImpactHK)
- Learn to make China's intangible cultural heritage item – Chinese knotted button in the shape of lovely animals
- Chinese Calligraphy Workshop conducted by *Shuyuan* teachers for writing blessing messages to the elderly and homeless

Other Fun Activities:

- Portrait sketches by special needs artist
- Student and parent performances
- Baked goods and bubble tea sale



Thank you!

Next HOS Coffee Morning: Wednesday, 8 May 2024

