

前進柏克萊實驗班計劃

Berkeley Talent Development Program

WFALEX



THE LAWRENCE
HALL OF SCIENCE

Berkeley
UNIVERSITY OF CALIFORNIA



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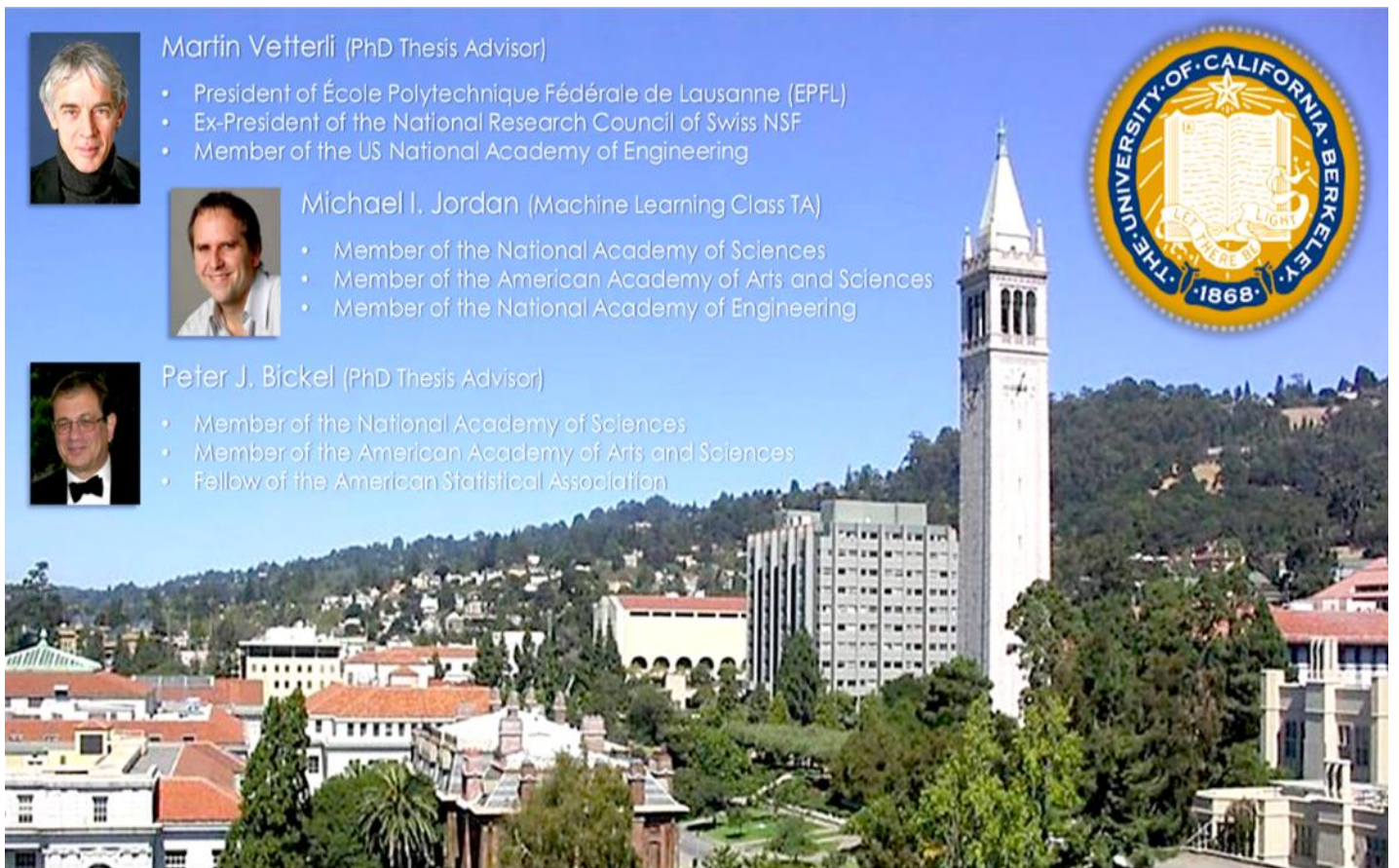
柏克萊菁英培訓計畫創始人鄭振和博士給家長的話


二十世紀末我有幸在柏克萊大學攻讀統計學博士，一方面在矽谷站在網際網路崛起的風口上，數據滿天飛。對統計學家而言，當時真可謂是創世紀的誕生；另一方面，我的指導教授統計模型理論的泰斗 Peter Bickel 與 Berkeley EECS 從 MIT 合聘了機器學習大師 Michael Jordan，開始結合統計模型與神經網路演算法技術，賦予人工智慧 AI 新的認知格局。因為成為這一門博士班課程的助教，我體認到結合人工智慧 AI 在複雜性動態系統之大數據分析的無窮潛力，加上從我另一位論文指導教授訊號分析處理大師 Martin Vetterli 身上，我看到未來 AI 透過網際網路結合訊號感測元件將會啟動物聯網在未來 21 世紀給人類文明帶來全面性翻天覆地的改變。

這幾年在金融風暴過後，AI 的崛起實在既快又突然，或許人類已經意識到資源有限的情況下，面臨全球氣候變遷與人口老化兩大最根本的經濟挑戰，讓我們沒有選擇餘地，不得不把我們的未來交給 AI。然而，風險中創造機會，機會亦帶來新的風險，從未來一、二十年內 AI 將會取代很多傳統腦力的工作，一直到 30 年後 AI 可能發展出相當高階的認知能力甚至自我的意識，人的能力跟人性如果沒有再進化，人類的社會與文明恐怕會產生奇異點 Singularity 的創造性毀滅，我相信這絕對不是杞人憂天。既然 AI 這個潘朵拉的盒子已經打開，與其擔心誘惑人類吃喝玩樂、幫忙勾心鬥角之邪惡 AI 的崛起，不如努力讓 AI 來協助人類進化，進入一個人機互動革命的良性循環。


二十年前我預見這一波 AI 革命的浪潮，感覺矽谷人才濟濟不缺我一個，放棄了在美國很好的機會，回到自己的故鄉希望能夠帶頭建立一個 AI 工業革命後的美麗家園。然而事與願違，走過我的「黑暗黃金歲月」十多年，即使我建構了整套人工智慧與知識科技系統，橫跨了金融、人力資源管理、教育以及醫療幾個領域應用所衍生的十多個專利系統，最後發現要能夠配合 AI 發展做產業革命的創新文化精神並沒有在我們的教育體系中可以找到，能夠找到跟 AI 協作的企業與人才實在寥寥無幾。

教育改革談何容易，要培養出不會被 AI 取代、進而能夠跟 AI 協作的下一代，恐怕得先要找像柏克萊大學這樣開放創新的機構合作，從小培養一批 AI 教育革命的特種部隊。這正是我與一些專家創建「WALEX 柏克萊菁英培訓計畫」的源由，希望未來幾年藉由這個實驗計畫的示範與不斷啟發，能夠讓全世界透過這一扇窗看到人機互動革命 (Cybernetic Revolution) 的美好未來。




 **Martin Vetterli** (PhD Thesis Advisor)

- President of École Polytechnique Fédérale de Lausanne (EPFL)
- Ex-President of the National Research Council of Swiss NSF
- Member of the US National Academy of Engineering

 **Michael I. Jordan** (Machine Learning Class TA)

- Member of the National Academy of Sciences
- Member of the American Academy of Arts and Sciences
- Member of the National Academy of Engineering

 **Peter J. Bickel** (PhD Thesis Advisor)

- Member of the National Academy of Sciences
- Member of the American Academy of Arts and Sciences
- Fellow of the American Statistical Association

達沃斯論壇

人工智能崛起時代的新世界



《人類簡史》作者驚人預言：巨變將至！未來人類不分階層，只分物種

Will the Future Be Human?

Yuval Noah Harari, Author of *Sapiens: A Brief History of Humankind*

World Economic Forum, Davos Switzerland, 2018.01.24



21 世紀新勞動力

人工智能崛起時代的新世界



21 世紀技能之四大內涵：

- 了解整個世界 Understanding the World
- 跳出思維的局限 Critical/Creative Thinkings
- 懂得聰明地對待新的信息來源 Smart on Info
- 發展良好的人際關係能力 Social Skills

舊的教育體制難適應全球經濟新形勢

舊教育內容與世界形成了鴻溝

新教育改革強調全球競爭力



The Revelation of
Nobel Prize
in Economics
2018



STEADFAST
台灣STEAM基礎教育聯盟

學程計畫

5x5x5

125種課程組合

世界著名大學
寒暑期集訓計畫

每周六常態訓練

9:00-12:00 主修 / 選修課程

Lesson Learning

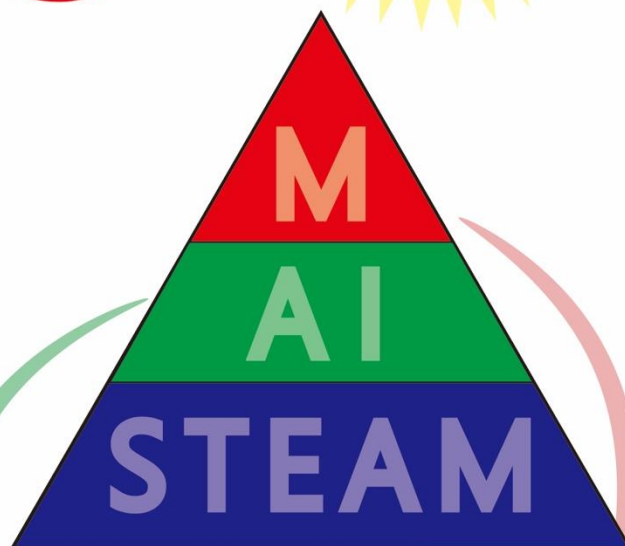
13:00-15:00 小組解決問題

Team Problem solving

15:00-17:00 小組競賽

Team Decision Making

每周課程單元不同，
可選擇一個月至多五次，
至少一次的全天課程



- NLP 自然語言處理
Natural Language Processing
- KG 知識圖譜
Knowledge Graph
- VAR 虛擬 / 擴增實境
AR / VR
- BC 區塊鏈
Block Chain
- QC 量子計算
Quantum Computing

- FinTech 金融科技
Financial Technology
- EdTech 教育科技
Educational Technology
- BioTech 生物科技
Biological Technology
- EnviroTech 環境科技
Environmental Technology
- SpaceTech 太空科技
Space Technology

- Science：複雜性動態系統
- Technology：資訊科技，知識科技，物聯網
- Engineering：機器人設計，區塊鏈，知識庫建構方式
- Art：動畫設計，遊戲設計，英文世界名著密碼解析
- Mathematics：排列組合，機率統計

結業授予三大證書：



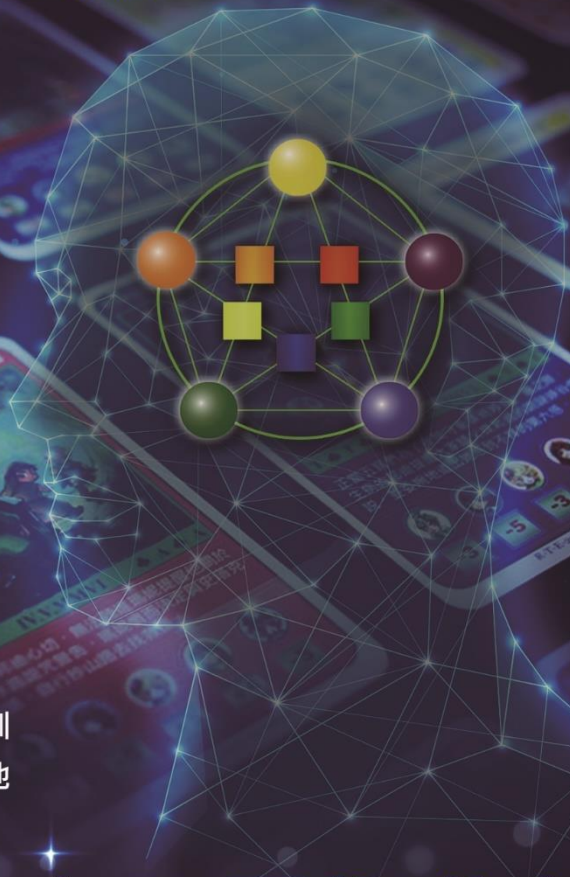
柏克萊勞倫斯STEM教育



柏林洪堡大學金融科技教育



STEAM FEAT WGP大賽



“LET THERE BE LIGHT!”

AI 賦能，啟發無限智能。

史無前例，在美國加州柏克萊首次開辦國小集訓
放眼全球，為世界各國 WALEX 網絡開天闢地

柏克萊 AI 應用暑期集訓

2020 開放招生

相關資訊 <https://www.steamfeat.org/berkeley>

全球格局最高的機器人集訓
人工智慧物聯網與太空科技大未來—
奈米衛星網際網路
在柏克萊大學勞倫斯國家科學館STEM學程
學會奈米衛星程式設計 成為21世紀的科技先鋒

AI @ Berkeley



STEAMFEAT
台灣STEAM基礎教育聯盟

臺北市中山區復興南路一段36-9號6樓
洽詢電話：02-27517169
Email : service@steamfeat.org



2020集訓梯次時間(方案 請上官網查詢)
第一梯次：7月04日 ~ 7月20日
第二梯次：7月25日 ~ 8月10日

2020 暑期柏克萊菁英培訓計畫海外學程

第一梯：7月4日-7月20日

第二梯：7月25日-8月10日

★ 上課地點：美國柏克萊大學 University of California, Berkeley
勞倫斯國家科學館 Lawrence Berkeley National Laboratory

★ 住宿地點：美國柏克萊大學學生宿舍

★ 三大結業證書
一、美國柏克萊勞倫斯 - STEM 教育證書
二、德國柏林洪堡大學 - 金融科技教育證書
三、台灣 STEAM 基礎教育聯盟 - WGP 大賽證書



★美國柏克萊大學勞倫斯國家科學館、德國洪堡大學、台灣 STEAM FEAT 合作課程

★分級 20 名學生一班，每班配有美國灣區當地頂尖高中生、柏克萊大學學生以及台灣區隊輔

★ 每位參加學程計畫的學員，將會配備一台 WALEX PASSPORT

★ 活動全英文環境，讓學生全程在專業環境運用英文

★ 課程概念為人工智慧物聯網與太空科技大未來 - “奈米衛星網際網路” Scratch 程式設計

★ 金融戰略王培養數位經濟，以及新金融世界的宏觀思維

★ 行前培訓 - 英文能力訓練、SCRATCH 基本程式設計、AI 科技概念、Give Me 5 競賽訓練

★ 學程費用包含 5x5x5 課程、行前訓練、以及未來六年的追蹤計畫，目標是透過 AI 的協助幫助學生未來的升學及就業

★ 全球格局最高的國際機器人學程



全世界唯一結合三大證書的培訓學程計畫！

一、 美國柏克萊大學勞倫斯國家科學館 - STEAM 教育證書



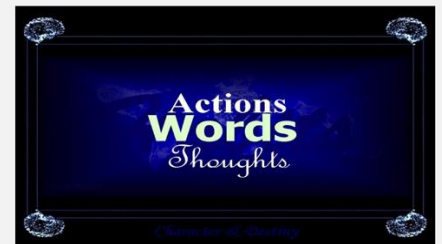
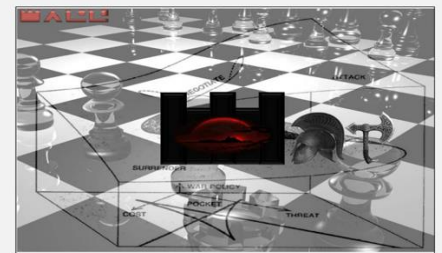
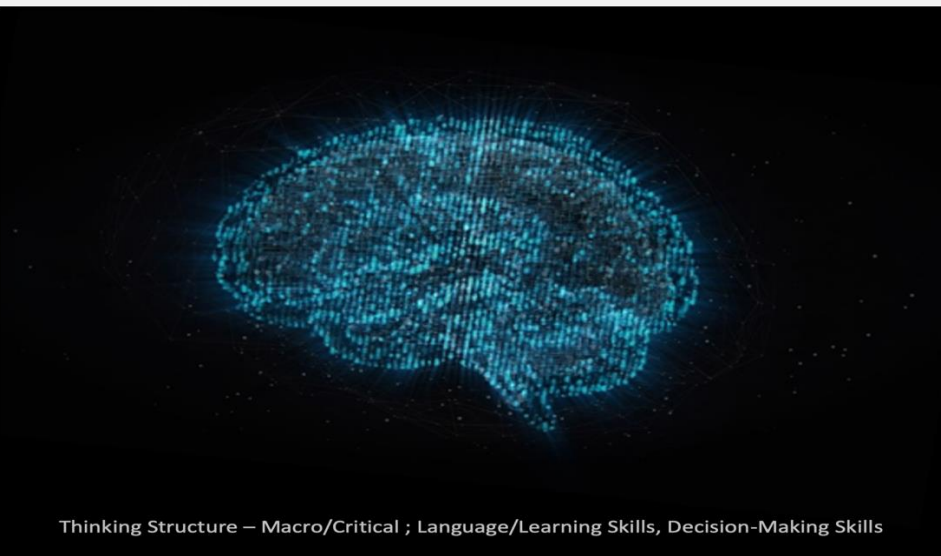
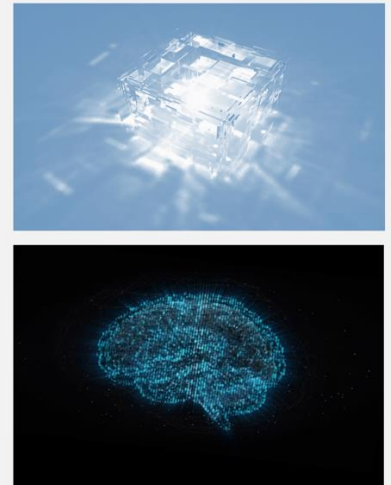
二、 德國柏林洪堡大學 - 金融科技教育證書



三、 台灣 STEAM 基礎教育聯盟 - WGP 大賽證書



全版證書請見附件



Thinking Structure – Macro/Critical ; Language/Learning Skills, Decision-Making Skills

❖ Interactive Learn-by-Play Mechanisms

WALEX Edutainment Apps

❖ Progressive Learning Profiles

Personalised Library, Personal Knowledge-Base

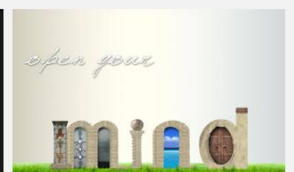
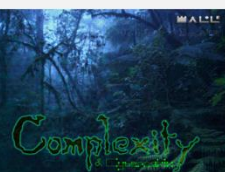
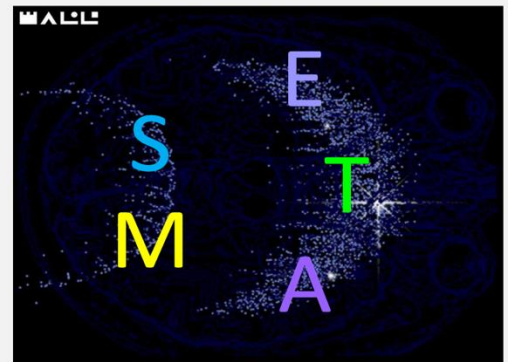
❖ Personal Training Assistant

Knowledge Query Engine & Teaching Bot Islemma

❖ Innovation Portfolio of Creativity

Adventure in the Treasure Wonderland toward 2355 AD

❖ Pathways of Connecting the Dots



第二波超級工業革命,機器取代腦力,東方



第一波超級工業革命,機器取代勞力,西方科技文明崛起

未來的趨勢，人類必須習得如何與 AI 合作

First Industrial Revolution

Capitalism

Complex Capital Markets

New Paradigm of Capital Management

Second Industrial Revolution

WALEX GRAND PRIX 金融戰略王大獎賽

- 符應 12 年國教推動，培養學生自主學習及團隊互動的能力
- 培養高中職學生的財務金融相關知能，及展現金融素養
- 因應國際化競爭，透過對金融事件的學習與理解，開展學生全球化視野
- 運用遊戲及競賽，寓教於樂，增進學生判斷與決策的能力

2016 - 19 WGP金融戰略王大獎賽 臺灣師範大學教育心理暨輔導學系主辦

企業鼎力贊助 教育專家熱情推薦 WALEX Grand Prix 一百多所學校中精選8所種子學校進行分區季賽&季後總決賽



台灣
STEAM
基礎教育聯盟



Email : service@steamfeat.org

f Walex Grand Prix 金融戰略王大獎賽

f CLC 兒童學習研發中心

2011-2019 高瞻計畫 科技部科學教育改革計畫

工業革命之『世界公民』金融教育:

- ❖ 臺灣師範大學教育心理暨輔導學系
- ❖ 科技部



成淵高中 南港高中
中正高中 麗山高中
南港高工 明倫高中
中崙高中 師大附中
華江高中 陽明高中
復興高中 北一女中
金山高中 板橋高中
海山高中 竹圍高中
瑞芳高工 新店高中
竹林高中 中和高中
錦和高中 明德高中
北大高中 中大壠中
金陵女中 林口高中
聖心女中 格致高中
內壠高中 復旦高中
平鎮高中 龍潭高中
楊梅高中 大溪高中
關陽女中 羅東高商
基隆女中 聖心高中
南崁高中 和平高中
金甌女中 景美女中

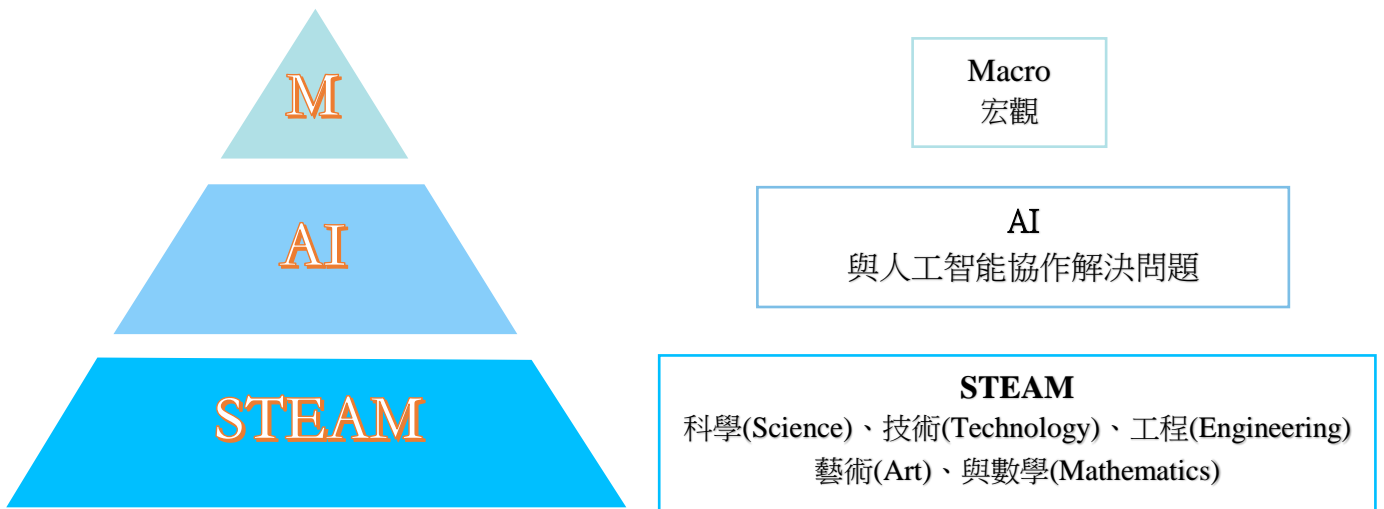


竹南高中 立人高中
文興高中 和美實校
鹿港高中 彰化高中
青年高中 明道高中
西苑高中 文華高中
惠文高中 豐原高中
彰師附中 中興高中
斗六高中 雲林國中
宏明實中 中科實中
與大附中 虎尾高中
斗六家商 正心高中
永慶高中 光華高中
聖功女中 大港國小
新化高中 新化高中
曾文農工 北門高中
前鎮高中 瑞祥高中
左營高中 三民家商
岡山高中 旗美高中
南光高中 南科實中
林園高中

台灣 STEAM 基礎教育聯盟

培養不被 AI 取代並與 AI 協作的人才

- 因應未來人工智能對產業、經濟與社會帶來巨大的衝擊，培養不被人工智能取代的世代
- 跨領域學習、應用知識解決問題、創新發明
- 搭配智能輔助的新科技，培養 21 世紀的人機互動新思維、新工作技能以及競爭力
- 能夠與 AI 協作的多元綜合教育



WALEX Web 3.0 計劃之發展歷史 - 人工智慧/知識科技/深度學習之智慧內容

學程計畫團隊

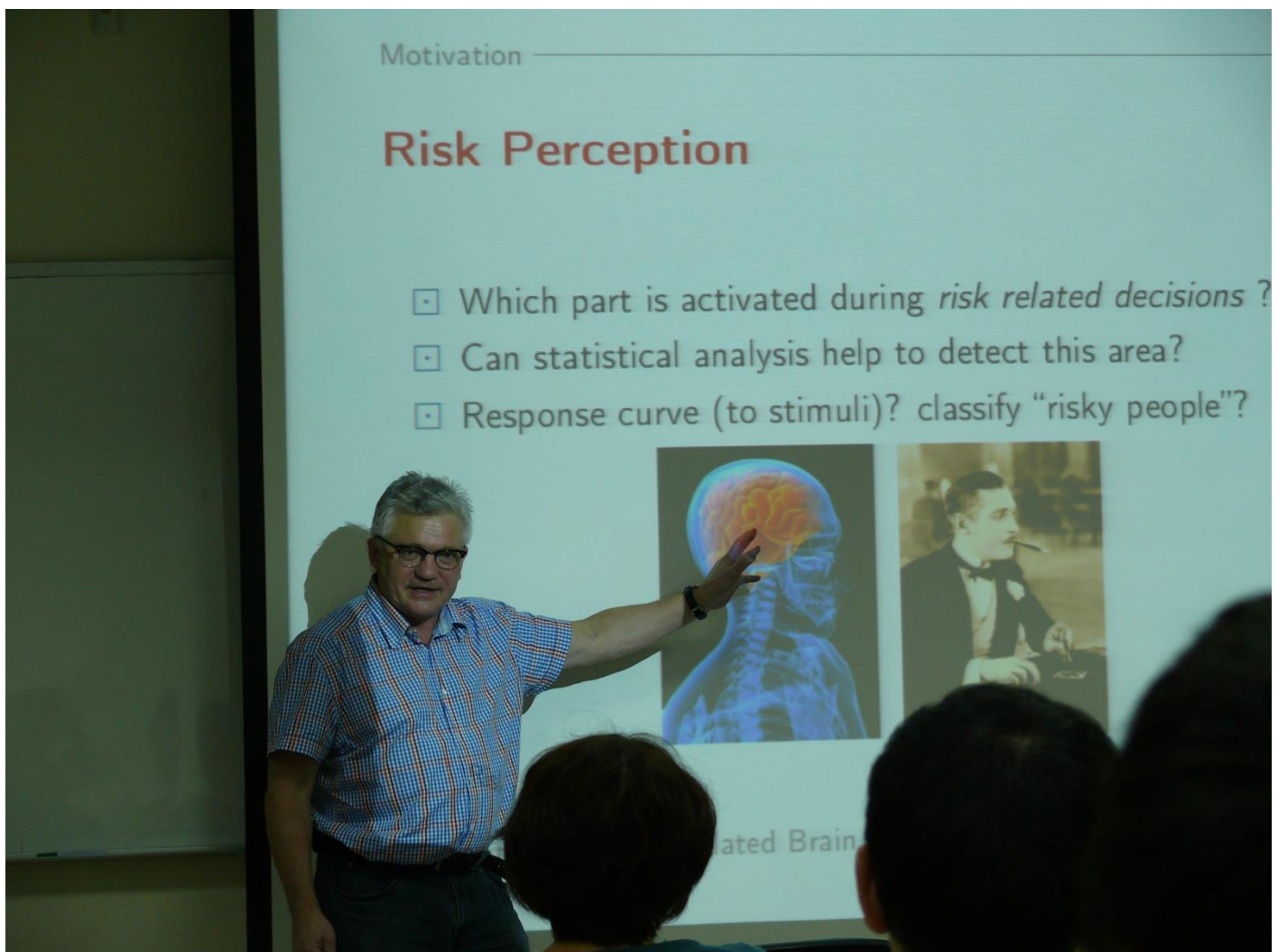
鄭振和博士

- 柏克萊大學統計博士 人工智能專家
- 最新金融科技世界權威期刊 Journal of Digital Finance 產學合作顧問
- 國立交通大學財金所與建模所財務工程 兼任教授
- 金管會期貨公會系統性風險控管顧問 - 國家風控機制研究與建構專案 - 共同主持人
- 科技部高瞻計畫深入淺出之金融科技教育特優獎 - 金融戰略王遊戲 - 發明人
- 台灣師範大學 WGP 金融戰略王大獎賽 - 共同發起人
- 香港科技園金融科技標竿計畫 - 諾亞創紀拱門宏觀智能投顧平台 - 專案負責人
- 柏克萊大學/勞倫斯國家科學館 WALEX 金融戰略王大賽與 STEAM 暑期營隊 - 共同執行人
- 柏林洪堡大學/布蘭登堡國際學校 宏觀金融教育專案 - 共同執行人
- 台灣 STEAM 基礎教育聯盟 - 共同發起人



Dr Wolfgang Karl Härdle

- Chief Advisor of Product Development
- Co-Director of Center of Complexity & Cybernetics
- Director of CASE, Humboldt University of Berlin
- World-renown Statistician
- World Top-ranked Econometrician
- Ladislaus von Bortkiewicz chair professor of statistics
- Director of the Sino German International Research Training Group IRTG1792



合作團隊

- 科技部 WALEX 金融戰略王合作：
國立台北科技大學、國立師範大學
- AI 學程計畫合作：
美國柏克萊大學 University of California, Berkeley
德國洪堡大學 Humboldt-Universität zu Berlin (HU Berlin)
- 策略聯盟夥伴：
DATA & ANALYTICS CAPITALS PTE.LTD.、恆忻資產管理(香港)有限公司
- CFM Educational Services
美國柏克萊大學官方長期配合教育機構，
專業規畫海外研習、學術行程安排。
本次學程 CFM 安排學員住在柏克萊大學宿舍，
比起一般寄宿家庭或旅館，安全性更高、方便性更佳。



CFM Educational Services (CFM) partners with universities and educational organizations in North America and European to establish outstanding graduate, undergraduate, and short-term educational programs especially designed to meet the needs of international students. Through the programs CFM administers, students keep pace with global trends and develop superior competency in a variety of business specialties. Students choose the program that fits their academic and professional goals and will be challenged by the diverse and focused curriculum that each program offers.

Since our inception in 1991, CFM has specialized in matching well-qualified international students with accredited academic programs in the United States. We provide professional consulting services for international students and working professionals. We collaborate with our institutional partners to customize curriculums catered to the needs of international students that offer both academic and professional focus. Well and beyond, we provide to students studying aboard or away from home rather comprehensive services wrapped around the academic curriculum that include residential components and cultural learning activities. Our goal is through our programs and services to promote diversity, leadership and academic growth on a global scale.

CFM strives to provide educational opportunities to international students. It is our vision to not only offer means of academic enrichment, but also foster professional and vocational growth. We give individual attention to each of our students. CFM is in the business of developing long-lasting relationships with our students and our partners in both recruitment and universities. It is through education that we hope to make an impact in our society and individual lives. We do education with integrity.


柏克萊兩週集訓課程與公開賽時程表

Time Date		Morning	Lunch	Afternoon	After Class	Evening
		9:00 - 12:00 am	12 - 1	1:00 - 5:00 pm	5:00 - 6:30 pm	6:30 - 9:30 pm
Sat	第 1 天	Arrival at SFO, Check-in, Orientation, Campus Tour, Group Bonding Activities				
Sun	第 2 天	Six Flags Discovery Kingdom				
Mon	第 3 天	Coding Nanosatellites	Picnic Lunch	Coding Nanosatellites	American Etiquette	Dinner; Writing Home
Tue	第 4 天			Coding Nanosatellites	Big C Hiking	Dinner; Advising
Wed	第 5 天			Visits to LHS & Research Labs	Water Jump Rope	Dinner; Advising
Thu	第 6 天			Coding Nanosatellites	Scavenger Hunt	Dinner; Advising
Fri	第 7 天			Closing Presentation & Party	Osborn the Dinosaur & 4.0 Hill	Dinner; Writing Home
Sat	第 8 天	San Francisco City Tour				
Sun	第 9 天	Computer History Museum; Great Mall Shopping				
Mon	第 10 天	WALEX Grand Prix	Picnic Lunch	WALEX Grand Prix	Workshop – Recycling	Dinner; Writing Home
Tue	第 11 天				UC Berkeley Main Library	Dinner; Spelling Bee
Wed	第 12 天				Frisbee & Water Balloon	Dinner; Movie
Thu	第 13 天				BAMPFA Art Museum	Dinner; Writing Home
Fri	第 14 天				Closing Ceremony	Dinner; Packing
Sat	第 15 天	Mad Science Exploratory Camp – Crazy Chemistry & The Organ Trail				
Sun	第 16 天	Six Flags Hurricane Harbor Water Park; Jelly Belly Factory Tour				
Mon	第 17 天	Check-out from Camping; Departure from SFO				

第一週課程學生將學習 Scratch 程式設計，並且學習運用在奈米衛星網路，
第二週課程 WALEX GRAND PRIX 大賽結合邏輯與金融科技，學習跨領域的知識運用。



柏克萊 Coding Nanosatellites 奈米衛星程式設計課程



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CFM Educational Services
11 August 2018 · 🌐

<LSI>
Coding Nanosatellites
Week 2 of classes was a very hands-on way for the LSI students to experiment with coding, build a robot, and interact with students and staff from UC Berkeley! Using the same sensors and arduino boards that are present on the nano-satellites used by the International Space Station, the students designed cardboard robots that reacted to specific movements.

The language that the students used on this project is Scratch, which is considered more accessible than textual programming languages because it uses a graphical interface that allows programs to be built with embedded blocks, remembering the Lego toy. Each language block contains a separate command, which can be freely grouped if they fit together.

#LSI #CFM #experiment #UCBerkeley #coding #Nanosatellites



戶外參訪



瘋狂科學探索營

Mad Science Exploratory Camp
1.The Organ Trail
2.Crazy Chemistry



六旗探索王國遊樂園

Six Flags是世界上最大的主題樂園連鎖品牌，管理著18家主題樂園和水上樂園。



雷根糖探索工廠

Jelly Belly Factory Tour上方1/4英里的路程，可以鳥瞰整個操作，並近距離觀察糖果製造。沿著旅遊線路欣賞互動展覽和遊戲！



舊金山金門大橋

Golden Gate Bridge是美國舊金山的地標。它跨越連接舊金山灣和太平洋的金門海峽，南端連接舊金山的北端，北端接通加州的馬林縣。金門大橋的橋墩跨距長1280.2米，建成時曾是世界上跨距最大的懸索橋，寬度27.5米，雙向共6條行車線，橋身呈褐紅色，金門大橋擁有世界第四高的橋塔，高達227.4米，全橋總長度是2737.4米。



計算機歷史博物館

computer history museum 是以計算機為主題的博物館，位在美國加州山景城，於1996年建立。它是為了保存和展示資訊時代的故事和產品，以及探索計算機的革命和它對人們生活的影響。在1996/1997年，在矽谷建立了計算機歷史中心博物館。在2000年，計算機歷史中心博物館的名字被改為「計算機歷史博物館」。



藝術宮

Palace of Fine Arts 位於美國加州舊金山海港區，是一座建於1915年的紀念性建築物，最初是為了在巴拿馬太平洋萬國博覽會中展示藝術作品而建造的。這是博覽會少數僅存且唯一保留於原址的建築物。



漁人碼頭(39號)

Fisherman's Wharf & Pier 39 是一個位於美國舊金山漁人碼頭的旅遊景點和購物中心。有商店、餐館、影音店、街頭表演，也有海洋哺乳類動物中心和海灣水族館。這個碼頭鄰近唐人街和內河碼頭，並可以經由F市場及碼頭線街車到達。可以遠眺天使島、阿爾卡特拉斯島、金門大橋和舊金山-奧克蘭海灣大橋等。



美國柏克萊美術館暨太...

Berkeley Art Museum and Pacific Film Archive (BAMPFA) 在柏克萊市中心的展出了20多個藝術展覽，450個電影節目，數十個表演，以及講座，座談會和巡迴演出。

報名須知及注意事項

一、如何報名：

團體或個人報名：即日起請至主辦單位諮詢報名。

通訊報名：請填妥報名表後，以傳真(02-2751-7027)的方式至主辦單位報名。

網路報名：線上填妥報名表後回傳，我們的諮詢顧問會儘快為你處理。

1. 請填妥報名表，依指定繳款方式至主辦單位報名處報名，並繳交學費。
2. 護照影印本(須持有以出發日算起六個月以上的有效期護照，不足者需重新辦理)。
3. 收到您的報名表並向學校確認後，主辦單位將會寄出確認書與繳交報名註冊費及證件通知書，並請您在開課 40 天前完成辦理報名註冊及繳交證件的手續。

二、繳款方式：

繳交學費時，請依下列方式辦理：

1. 現金支付：親自至主辦單位或協辦單位報名繳交。
2. 匯款：請依繳款通知書上指定之銀行戶名及帳號徑行前往匯款。
3. 即期支票：支票請填上"禁止背書轉讓"，並填寫指定抬頭以掛號方式郵寄承辦人員。

匯款帳號 戶名：臺灣 STEAM 基礎教育聯盟
美金電匯帳號：163-40-020848
銀行：第一銀行 / 復興分行 (分行代碼 007)

Bank: First Commercial Bank
Code:FCBKTWTP163
Name: STEAM Fundamental Education Alliance o
Taiwan
Account:163-40-020848
Tel:+886-2-27517169

三、學員說明會：

出發前將舉行學員行前說明會，同時分發學生資料袋，內含：學生緊急聯絡卡片、學員手冊、旅遊手冊、旅遊行程表、班機時刻表、海外遊學契約書.....等詳細資料。

四、健康聲明：

學員健康若異常，為了維護您的安全，必須在報名表格上注明所患的疾病或其他健康事故，含(精神狀況有問題者)。報名時，並請一併繳交英文版醫生診斷病歷證明和醫生許可證明，學生報到後如果被發現與此不符，可能會遭學校遣回。

五、取消入學資格報名註冊費恕不退還：

任何的取消及退費申請，必須向主辦單位提出書面申請書，在任何情況下報名註冊費恕無法退費。

六、學費包括：

1. 來回經濟艙機票（行李 20 公斤，但件數及限重依各航空公司及地區別之規定，超出件數及超重者請自行付費）
2. 機場稅及機場燃料稅。（有另外於行程注明者，不在此限）
3. 依教育部國際文教處規定投保海外遊學業履約保證險 1,000 萬元，旅遊部分則依觀光局管理規則第 53 條規定，投保旅行業履約保證險 4,100 萬元，本公司再提高每位學員保障，加保旅遊責任險新臺幣 500 萬元外加意外醫療險 20 萬元（15 歲以下學員依保險法令規定最高投保金額為 200 萬元），更提供海外急難救助險。家長或學員可依個人所需自行加保旅遊平安保險或其他保險，相關條例請參考保險法相關規定。
4. 營隊期間課程學費。 ※以學校實際時數為主及參考課程相關範例。
5. 3 張結業證書。（請參考課程相關範例）
6. 全天、半天及部份校區晚上的文化教育活動。
7. 隨團領隊老師全程陪伴，提供學員必要的協助服務。
8. 學校宿舍住宿費用及每日三餐餐食費用。
9. 假日戶外活動含門票、交通費用、風味餐。

七、學費不包括：

1. 護照工本費：NT\$ 1,500 元整
2. B-1/B-2 簽證費
3. 住家（含北、中、南部）至桃園國際機場的來回交通費
4. 純屬個人之消費：如電話費、行李超重費、旅遊期間個人購物費用等
5. 未列入行程之機票及有關費用

社團法人台灣 STEAM 基礎教育聯盟 (STEAM FEAT)

TEL: [886-2-2751-7169](tel:886-2-2751-7169)

FAX: [886-2-2751-7027](tel:886-2-2751-7027)

臺北市中山區復興南路一段 36-9 號 6 樓

service@steamfeat.org

報名表

報名日期： 年 月 日

姓名：中文 (姓) _____ (名) _____ 英文 _____ (Family Name) (First name)		三個月內近照
學生就讀學校：	年級：	
出生日期： 年 月 日	性別： <input type="checkbox"/> 女 <input type="checkbox"/> 男	
手機：	有無護照： <input type="checkbox"/> 有(效期八個月以上) <input type="checkbox"/> 沒有	
LINE ID:	身份證字號:	
聯絡地址：		
EMAIL：		
緊急連絡人姓名：	與本人關係：	
緊急連絡人電話：	緊急連絡人手機：	
欲報名時程： <input type="checkbox"/> 2020/07/04-2020/07/20 (17天) <input type="checkbox"/> 2019/08/25-2019/08/10 (17天)	介紹機構：	
健康狀況： <input type="checkbox"/> 皮膚過敏 <input type="checkbox"/> 氣喘 <input type="checkbox"/> 心臟疾病 <input type="checkbox"/> 其他任何身體不適之處，需多加注意(請說明) *若有特殊疾病及過敏項目請附醫生診斷證明，請務必事先告知*		
報名時應繳交：		
1. 本申請書		
2. 家長同意書		
3. 有效期限內護照影本(離護照到期日至少 8 個月為有效護照)		

Berkeley Tournament 2020 & STEAM Learn-by-Play Camp for WALEX
Talent Development Program

前進柏克萊實驗班計畫 - 美國柏克萊 AI 應用暑期集訓 17 日

家長同意書

茲同意 (學生姓名) 參加美國柏克萊 AI 應用暑期集訓 17 日。

一、活動名稱：美國柏克萊 AI 應用暑期集訓 17 日

二、活動時間： 年 月 日至 年 月 日

立同意書人：

家長姓名： (簽章)

身份證字號：

連絡電話：

報名學員姓名： (簽章)

身份證字號：

與立同意書人關係：

中 華 民 國 年 月 日

註：未滿 18 歲之國內青年適用本表

WALEX Talent Development Program 2019

Student Profile & Agreement

Please have the following documents ready to upload in order to complete this form:

1. Photo for ID Card (at least 800x800 pixels)
2. Copy of Passport
3. Signed Medical Treatment Authorization Form - [Download It Here](#)
4. Signed Lawrence Hall of Science Participant's Form - [Download It Here](#)

Part I: Student Information

Session * Session I: 7/4 - 7/20 Session II: 7/25 - 8/10

Full Name *
First/Given Name Last/Family Name

Other Names *
Preferred English Name Chinese Name

Gender * Male Female

Birth Date *
Month Day Year

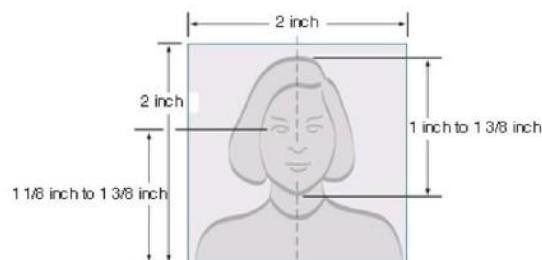
Passport Number

Current Grade *

Name of Current School *

Photo for IDcard * 未選擇任何檔案

At least 800x800 pixels; maximum file size: 10MB; Allowed file types: JPG, JPEG, GIF, BMP, PNG



Permanent Address *
Street Address

City State / Province

Postal / Zip Code Country

Mother/Guardian's Name *
First/Given Name Last/Family Name

Cell Number * -
+ Country Code Cell Number

E-mail *

Father/Guardian's Name *
First/Given Name Last/Family Name

Cell Number * -
+ Country Code Cell Number

E-mail *

Emergency Contact *
First/Given Name Last/Family Name

Cell Number * -
+ Country Code Cell Number

Relationship to Student *

For Dorm Arrangement Purpose:

Check all that apply * Clean Messy

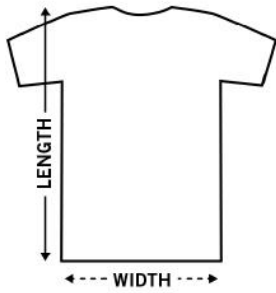
Quiet Loud

Light Sleeper Heavy Sleeper

Early Riser Night Owl

Snore

What T-Shirt (complimentary) size would you prefer?



Size	Youth Size	Width	Length
XS	2-4	15.5	20.5
S	6-8	17	22
M	10-12	18	23.5
L	14-16	19	25
XL	18-20	20	26.5

(inches)

T-shirt size *

- XS
 S
 M
 L
 XL

Part II: Uploading Documents

I. Passport

- Please upload a copy of passport (valid for at least 6 months), and name the file as "**LAST NAME, First Name_passport**" (e.g., "**WANG, Da-Ming_passport.pdf**")

Passport Copy

未選擇任何檔案

Maximum file size: 10MB; Allowed file types: PDF, JPG, JPEG, GIF, BMP, PNG

II. Health Information

- Please upload the **signed** Medical Treatment Authorization Form and name the file as "**LAST NAME, First Name_medical**" (e.g., "**WANG, Da-Ming_medical.pdf**")

Medical Form *

未選擇任何檔案

Maximum file size: 10MB; allowed file types: PDF, JPG, JPEG, GIF, BMP, PNG

III. Lawrence Hall of Science Participant's Form

- Please upload the completed participant's form and name the file as "**LAST NAME, First Name_waiver**" (e.g., "**WANG, Da-Ming_waiver.pdf**")

Participant's Form *

未選擇任何檔案

Maximum file size: 10MB; allowed file types: PDF, JPG, JPEG, GIF, BMP, PNG

Part III: Agreement & Release

TERM-I: STUDENT CONDUCT AGREEMENT

★ [CLICK HERE to View Student Conduct Agreement](#)

I have read and understood all the information and policies included in the [Student Conduct Agreement](#). I agree to abide by all the policies and understand that failure to do so will result in consequences and possible dismissal from the program without any refunds.

Term-I * Accept and Agree

TERM-II: PROGRAM ACTIVITIES

I consent my child to participate in all the program activities, acknowledging that there are both benefits and possible risks associated with program activities. Therefore, I release CFM from any liability of injury, sickness, or damages caused by my child's negligence or the possible risks associated in activities and agree to indemnify, defend and hold harmless CFM and its officers and employees against and from all claims, actions and suits.

Term-II * Accept and Agree

TERM-III: PHOTOS, VIDEOS AND COURSEWORK

Photographs and videos of WALEX students and copies of their coursework are displayed in the WALEX catalog and newsletters, on the WALEX and CFM website, and in other UC publications. It may also be used for future program marketing and promotional materials only.

- Photos and videos include candid photos of class activities, group photos of the entire class, and video footage taken during the program. Individuals will not be identified by name. I agree that CFM may include my child in class photos and videos.
- Coursework includes writing, artwork, or other projects completed during WALEX. Published coursework may include the student's name. I agree that CFM may share my child's work from the program.
- I agree that CFM may include my child's pictures taken during the course of the program for future marketing materials.

Term-III * Accept and Agree

By signing below, I hereby acknowledge that I am the parent/guardian of the student and as the parent/guardian of the student, I have completed the above permissions/release and given the above permissions to WALEX Talent Development Program and CFM.

* Signature below is considered official and legal.

Parent/Guardian's Signature *

Clear

Date *

04-30-2019



* Before submission, print a copy for your records.

Participant's Name: _____

Please Print

UNIVERSITY OF CALIFORNIA, BERKELEY
LAWRENCE HALL OF SCIENCE

Waiver of Liability, Assumption of Risk, and Indemnity Agreement

Waiver: In consideration of being permitted to participate in any way in Summer Science Camp Programs at the Lawrence Hall of Science, hereinafter called "The Activity," I, for myself, my heirs, personal representatives or assigns, **do hereby release, waive, discharge, and covenant not to sue** The Regents of the University of California, its officers, employees, and agents, and the Berkeley Unified School District, its officers, employees, and agents from liability from **any and all claims including the negligence of The Regents of the University of California, its officers, employees and agents**, resulting in personal injury, accidents or illnesses (including death), and property loss arising from, but not limited to, participation in The Activity.

Signature of Parent/Guardian of Minor Date Signature of Participant Date

Assumption of Risks: Participation in The Activity carries with it certain inherent risks that cannot be eliminated regardless of the care taken to avoid injuries. The specific risks vary from one activity to another, but the risks range from 1) minor injuries such as scratches, bruises, and sprains 2) major injuries such as eye injury or loss of sight, joint or back injuries, heart attacks, and concussions 3) catastrophic injuries including paralysis and death.

I have read the previous paragraphs and I know, understand, and appreciate these and other risks that are inherent in The Activity. I hereby assert that my participation is voluntary and that I knowingly assume all such risks.

Indemnification and Hold Harmless: I also agree to INDEMNIFY AND HOLD The Regents of the University of California HARMLESS from any and all claims, actions, suits, procedures, costs, expenses, damages and liabilities, including attorney's fees brought as a result of my involvement in The Activity and to reimburse them for any such expenses incurred.

Severability: The undersigned further expressly agrees that the foregoing waiver and assumption of risks agreement is intended to be as broad and inclusive as is permitted by the law of the State of California and that if any portion thereof is held invalid, it is agreed that the balance shall, notwithstanding, continue in full legal force and effect.

Acknowledgment of Understanding: I have read this waiver of liability, assumption of risk, and indemnity agreement, fully understand its terms, and understand that I am giving up substantial rights, including my right to sue. I acknowledge that I am signing the agreement freely and voluntarily, and intend by my signature to be a complete and unconditional release of all liability to the greatest extent allowed by law.

Signature of Parent/Guardian of Minor Date Signature of Participant Date
Participant's Age (if minor) _____

Standard Retention -3 years after the last date of the activity
Retention for Minors - 3 years after the last date of the activity or until minor's 20th birthday (whichever is longer)

**PHOTOGRAPHIC, MOTION PICTURE, VIDEO, AND SOUND RECORDING
RELEASE AND ASSIGNMENT**

I, _____, hereby authorize THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (the "University") and its officers, agents, employees, and contractors to photograph, film, videotape, or record me and use my name, voice and/or likeness in such photograph, film, video, or other recording.

I understand that any photograph, sound recording, motion picture, video, or other recording taken of me under this agreement ("Material") can be used for any purpose, including serving the University of California's mission of research, education, and public service, and for promoting the public good.

I hereby assign to the University all rights, title, and interest – including copyright and rights of publicity – that I may have in and to any and all such Material. I hereby irrevocably authorize the University, its officers, agents, employees, and contractors without limitation, to adapt, modify, reproduce, copy, sell, exploit, exhibit, publish, publicly perform, transmit, license, sublicense, distribute, or otherwise use any and all such Material in perpetuity. I understand and agree that I will not receive payment for any use of the Material by University.

I further release, forever discharge and agree to hold harmless the University, its officers, agents, employees and contractors from any and all claims and demands – including but not limited to claims for violation of rights of publicity, invasion of privacy, libel, defamation, copyright infringement – arising out of or in connection with the use of said Material.

I warrant that I am of full age and have the right to contract in my own name. This agreement will be binding upon me, my heirs, legal representatives, and assigns.

I have read and understood the provisions of this agreement, and understand that I am free to obtain advice from legal counsel of my choice, at my expense, to interpret these provisions. By signing below, I acknowledge that I have freely and voluntarily entered into this agreement.

SIGNATURE: _____ DATE: _____

PRINT NAME: _____

ADDRESS: _____

I hereby certify that I am over 18 years of age: _____
Initials

For subjects under 18 years of age: I hereby certify that I am the parent or guardian of the person named above, and I do hereby give my consent without reservation to the foregoing on behalf of him or her.

SIGNATURE OF PARENT OR GUARDIAN: _____ DATE: _____

PRINT NAME: _____

I have read and received a copy of this release: _____
Minor's Initials

ORIGINAL TO BE RETAINED BY DEPARTMENT

Medical Treatment Authorization Form

This form grants temporary authority to a designated adult during WALEX Talent Development Program to provide and arrange medical care for a minor in the event of an emergency where the minor is not accompanied by either parents or legal guardians, and it may not be feasible or practical to contact them. This form should be given to the program staff or residential counselor who is the designated adult to chaperone the minor with this authorization to seek medical care.

Minor

First Name: Last Name:
Date of Birth: (mm/dd/yyyy) Gender: Male Female

Information for Medical Treatment (if any)

Physician's Name: Physician's Phone Number:
Location of Practice:
Medical Insurer/Health Plan: Policy #:

Allergies to Medications:

Please provide detailed information regarding any **medication** student takes (type and purpose of medication, frequency)

Note any other **significant medical information**:

Please provide all information regarding any student **illnesses and conditions** (including physical, mental, emotional) we should be aware of:

Please provide any specific **allergy** information, e.g., peanuts:

Note any **dietary restrictions**, e.g., vegetarian, vegan, no dairy etc.:

Due to the varying physical responses each child has to American OTC (over the counter) medication, we urge parents to prepare assorted medications with labeling/descriptions for students to bring to the USA. If parents do not agree to provide personal medication, students will be advised to seek health care on their own during the program and an estimated doctor's visit is normally US\$100 or more excluding prescription. The Program will only provide first aid kits for minor injuries.

AUTHORIZATION AND CONSENT OF PARENT(S) OR LEGAL GUARDIAN(S)

I do hereby state that I have legal custody of the aforementioned Minor. Should it be necessary for my child to have medical care while participating in this Program, I give my authorization and consent to the Program and CFM to use their judgment in obtaining medical care or emergency care through a physician for the child. I understand that the supplementary traveler's insurance the Program helps facilitate for my child requires a post-care claiming process; the Program and CFM are not responsible and have no obligation and authority for the claiming process. I agree to assume financial responsibility for all expenses of and at the scene of such care.

This authorization is effective from Session I: June 29, 2019 through July 15, 2019; Session II: July 20, 2019 through August 5, 2019.

Signed this day of , 2019.
(Date) (Month)

Father/Legal Guardian's Printed Name: Signature:

Mother/Legal Guardian's Printed Name: Signature:

WALEX Talent Development Program

Student Conduct Agreement

As a condition of enrolling in the WALEX Talent Development Program, you must agree to follow all UC Berkeley and Program policies and procedures.

Please carefully read all related policies in advance to signing this agreement, so that you can make an informed decision to enroll in the WALEX Talent Development Program. It is very important that you understand these policies and procedures, and indicate that you know what the rules are, agree to follow these guidelines, and accept the consequences if violations occur.

These rules are in effect for the period of your occupancy in the UC Berkeley Residence Halls. If you have any questions about the WALEX Talent Development Program or financial obligations, please contact us for answers before signing this agreement.

Residence Hall Policies

1. The WALEX Talent Development Program has the sole right to determine the occupancy and configuration of any room and the sole right to change room assignments.
2. Unauthorized persons are not permitted to reside in the Program residence halls.
3. You are responsible for the condition of the residential room assigned to you, as well as for furnishings. You must compensate the residence hall for any damage to property that you cause even if this bill comes after the end of the program.
4. If you lose any dorm keys, you will be charged for the replacement fee of \$100 (\$75 for key, \$25 for key-fob).
5. The University/Program and its officers, employees, and agents assume no responsibility for the loss, damage, or destruction of personal property kept or stored in the residence halls.
6. The room assigned by this agreement will not be available for occupancy prior to **6/29/2019 (Session I) or 7/20/2019 (Session II)** and must be vacated and left in good order not later than **7/15/2019 (Session I) or 8/5/2019 (Session II)**. Residence hall belongings left in the room after the established dates will be donated or discarded.
7. The following rules shall apply at all times in all areas of the residence halls, and failure to comply may constitute a breach of this agreement and may result in judicial action being taken:
 - No firearms, explosives, or any type of fireworks or weapons, including air pistols and BB guns
 - No candles, incense, or anything that burns and no open flames of any kind.
 - No smoking.

WALEX Talent Development Program

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5. The University/Program and its officers, employees, and agents assume no responsibility for the loss, damage, or destruction of personal property kept or stored in the residence halls.
6. The room assigned by this agreement will not be available for occupancy prior to **7/4/2019 (Session I) or 7/20/2020 (Session II)** and must be vacated and left in good order not later than **7/25/2020 (Session I) or 8/10/2020 (Session II)**. Residence hall belongings left in the room after the established dates will be donated or discarded.
7. The following rules shall apply at all times in all areas of the residence halls, and failure to comply may constitute a breach of this agreement and may result in judicial action being taken:
 - ♦ No firearms, explosives, or any type of fireworks or weapons, including air pistols and BB guns
 - ♦ No candles, incense, or anything that burns and no open flames of any kind. No
 - ♦ smoking.

- No removal of lounge furniture to rooms.
- No tampering with fire extinguishers, equipment, alarms, or signs.
- No playing of sports that may cause damage to residential hall property or harm to others.
- No creating of any type of hazardous condition.
- No illegal room changes.

Behavior Policies

Students must abide by the following rules. Failure to do so will result in consequences and possible dismissal from the program.

1. Students are expected to treat others (peers and staff) with respect.
2. You are responsible to keep your dorm room in good shape. Any property damage will result in additional charges.
3. Plagiarism & cheating are considered very serious matter and will not be tolerated. In any assignment, project, homework, creative art or research, it is the ethical responsibility of every student to present his/her own original work without plagiarism and without unauthorized assistance, as there is zero tolerance for plagiarism in the U.S.
4. Drugs, alcohol, harassment, theft, smoking, and physical aggression are strictly prohibited
5. Weapons, sharp objects, and firearms are strictly prohibited
6. Please be in your rooms and adhere to the lights out time every night unless given permission otherwise.
7. No wandering outside alone at night or daytime.
8. Unless an authorized adult (18 years or older) has been authorized by the parent to take student off-campus, students are not allowed to leave the group individually.
9. You may not take any transportation alone without prior permission.
10. Please be on your best behavior and present yourselves as model citizens, particularly during your community service activities.
11. Quiet hours: Quiet hours will be observed from 9PM to 7AM. Quiet hours mean that all students are to keep noise level to a minimum in order to give others' time for work, study, or sleep during these hours. During these hours, students may not leave the dorm building without a chaperone.
12. No overnight guests are allowed in the dorm.
13. Damage/Theft: Students will be charged with the cost of damage upon checkout if there is damage on the property.
14. Disorderly Conduct: Students are expected to behave in a mature and responsible manner and respond to any reasonable request made by any staff member. Disorderly conduct may include the use of obscene language in the class, dorm and public, invasion of another's privacy, fighting

in a public place and/or making threats. There is zero tolerance for such behaviors and misconduct.

15. Bullying: Bullying will not be tolerated. It is defined as any intentional hurtful physical act, word, verbal or electronic comment (phone, email, LINE, WeChat, WhatsApp and or social media), gesture, facial expression or action that would hurt someone physically, mentally, or emotionally, such as name calling, threatening, and or shunning, committed by one or more students against another.
16. Students are expected to speak English as much as possible while they are in the program. This is important to be respectful to our staff who are not all bilingual, as well as to other students who may not speak the same language.

The University/Program reserves the right to judge the severity of any Program violation or misconduct, and determine appropriate consequences, measures, or disciplinary actions. Violations of Program policies and procedures that lead to dismissal from the Program will invalidate the residential accommodation agreement without refund.

* You may download a copy of this agreement [HERE](#) or print a copy for your records.

ACHIEVEMENT

CERTIFICATE

CODING NANOSATELLITES 2020



THE LAWRENCE
HALL OF SCIENCE

Berkeley
UNIVERSITY OF CALIFORNIA



SUSAN GREGORY, DEPUTY DIRECTOR
LAWRENCE HALL OF SCIENCE, UC BERKELEY

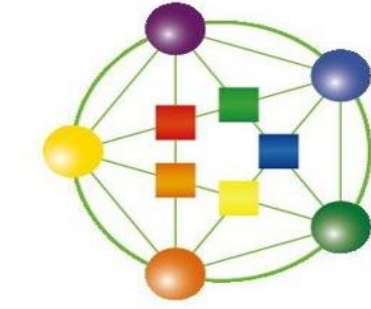
DATE

RACHEL WALSH, PH.D., INSTRUCTOR
LAWRENCE HALL OF SCIENCE, UC BERKELEY

Certificate of Achievement

as

Junior Macro Strategic Quant



to

by

Raphael Reule

IRTG 1792

Wolfgang Karl Härdle

"High Dimensional Nonstationary Time Series"

School of Business and Economics

Humboldt-Universität zu Berlin

WALFHEIM X

TOURNAMENT

OF

WALEX GRAND PRIX

AT

Berkeley

2020



Player of WGP

President of STEAM FEAT

we open kids' minds



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