



Google University Relations in Taiwan

- A briefing and Q&A

November 30, 2023

East Asia Research Solutions & University Relations, Google

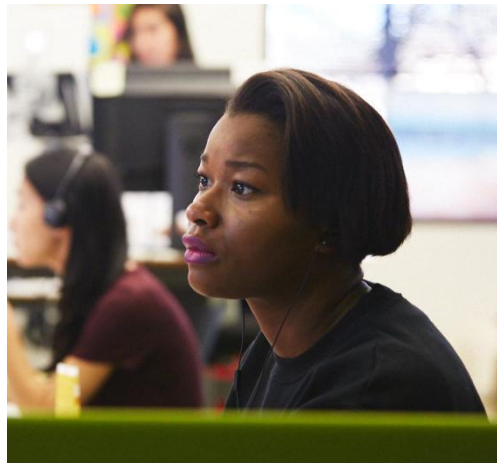
Outline

- Google University Relations: a Global Perspective
- Google University Relations in Taiwan
- Program / Collaboration Examples
- Google Contact

Google University Relations

Google

Organize the **world's**
information and
make it **universally**
accessible and
useful.



University Relations @ Google

What do we do?

- Enable academic collaborations for Google Research
- Promote academic research in areas of interest to Google
- Support the pipeline of CS researchers globally

Why do we do this?

- Augment research capacity
- Create research results and impact that would not otherwise be possible
- **Positively impact as many people as possible to make the world a better place**



Opportunities for Faculty

Research Grants

Supports research sponsored by Googlers. Not for open call but Google Sponsor applies for it on behalf of the Professor.

Research Scholar Program

Supports research conducted by early-career faculty globally. Applications open in Fall.

Award for Inclusion Research Program

Supports research addressing the needs of **populations historically underrepresented in the tech industry.** Applications open in Summer.

exploreCSR Program

Awards that support universities to host **CS research workshops** to increase the number of **students from historically marginalized groups'** in CS research pathways.

Visiting Researcher Program

Invite-only program for academic researchers to visit Google for 3-12 months to **collaborate with research and engineering teams.**

Opportunities for Student

PhD Fellowship Program

Fellowships recognize outstanding graduate students doing exceptional and innovative research. The program supports promising PhD candidates of all backgrounds who seek to influence the future of technology.

Student Travel Grants

Support outstanding research students to **attend leading conferences**.

<https://buildyourfuture.withgoogle.com/scholarships/google-conference-scholarships>
(APAC tab, East Asia section)

Conference Scholarships & internships

Scholarships to encourage students to excel in their studies and become role models and leaders. Additionally, **internship opportunities** are available across various research areas.
buildyourfuture.withgoogle.com/

Student Researcher Program

Support students to pursue future career in research. To work with Google teams at Google as **Research Intern**. Flexible internship period. BS, MS or PhD students are all eligible.

Research resources

Google Cloud Platform (GCP)

GCP Research Credits to provide students and researchers with computing power, storage and AI tools to develop bold ideas and make cutting-edge discoveries.

cloud.google.com/edu

Datasets

Google open-sourced data of interest to researchers in a wide range of CS-related disciplines contributed to the broader research community.

research.google/tools/datasets/

TensorFlow

An **end-to-end open source machine learning platform** offering a flexible ecosystem of tools, libraries and community resources that lets researchers push the state-of-the-art in ML

tensorflow.org/

Cirq

A **python framework** for composing, analyzing, implementing and simulating quantum circuits, design for contemporary quantum computers.

Research values

People + AI Research
(PAIR) guidebook

Toolkit of methods and best practices for designing human-centered AI products.

pair.withgoogle.com

Responsible AI

AI Principles that guide Google research and applications, best practices for communities outside of Google, and programs to operationalize our efforts to **develop artificial intelligence responsibly in order to benefit people and society.**

ai.google/responsibilities

Learn with Google AI

Information, courses, and exercises from ML experts at Google to help **develop skills and advance projects.**

ai.google/education/

Google UR in Taiwan

UR in Taiwan: Collaboration History

2020
Initiation

- Start from small

Google 台灣 - 官方部落格

為台灣開設的繁體中文網誌，Google 的最新消息、產品技術情報都在這裡

Google 大學交流計劃推展至台灣

2020/05/06

2018 年我們啟動「Google 智慧台灣計劃」，將人才培育列為 Google 在台發展的主軸之一，這幾年來我們持續履行聘用台灣當地人才、與產官學界合作推動培訓計劃、提供免費的線上資源或實體課程。延續「智慧台灣計劃」的承諾，我們在4月份啟動數位人才探索計劃，很高興今天再跟大家宣布我們將 Google 大學交流計劃 (Google University Relations Program) 帶到台灣，協助才華洋溢的學生建立業界人脈，並幫助他們在電腦科學領域發展過程中能夠持續受到啟發。

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此外，Google 大學交流計劃目前也正積極籌備針對台灣的大學生、碩士和博士生的學生旅遊補助金計劃，讓學生們有機會參加全球各地舉辦的國際頂尖電腦科學會議，具體時程將在確定後另行宣布。

Google 大學交流計劃旨在和台灣的大學校院展開長期合作，幫助學校與學生持續在電腦科學領域不斷精進，未來我們也將提供更多研究補助計劃，持續培養台灣新一代研究人才。

本文作者：Google 台灣董事總經理 馬大康博士

2021
More

- More programs
- More universities

2022
Silicon

- Taiwan Silicon Research Program
- More research projects
- A few first(s)

2023
AI

- Silicon Expansion Plan
- AI, Health, Hardware
- Co-announcement of collaboration

Google 台灣 - 官方部落格

為台灣開設的繁體中文網誌，Google 的最新消息、產品技術情報都在這裡

推動多項大學交流計畫幫助台灣科技發展

2023/05/04

2018 年，我們推出了「Google 智慧台灣計畫」，希望將台灣打造成亞洲矽谷；而其中一個重要的願景，就是要在台灣推動先進科技的發展。今天，我們很高興跟大家正式分享，我們去年為台灣量身打造的「半導體研究計畫」即將正式展開，希望結合產學界能量，加速台灣在半導體關鍵技術的發展。

.....

科技的發展相當快速，無論是對學者或是學生來說，都需要和業界接軌，才能掌握重要的趨勢和發展的機會。我們很榮幸在過去幾年當中，能和台灣的許多大學合作，完成許多計畫；未來，我們也期待能夠繼續幫助台灣的科技人才在世界發揮影響力，並且和台灣的科研教育體系一起創新、一起成長。

本文作者：Google 台灣董事總經理馬大康博士

Collaboration Programs at a Glance

Faculty

[Research Grant](#)

[Award for Inclusion](#)

[Research Scholar](#)

[Visiting researcher](#)

[Conf. Sponsorship](#)

[GCP Credits Grant](#)

[exploreCSR](#)

Student

[PhD Fellowship](#)

[Student Travel Grants](#)

[Student Researcher Program](#)

Please refer [here](#) for a full list of program offerings.

UR in Taiwan: Status Update (2023)

Research Grants	Conference Sponsorship	GCP Credits program	Workshops
17 Projects AI, Silicon, Hardware, Health	7 conferences SIGIR 2023, VLSI Design, ISIT, IEEE CTW, Multimedia Asia, COSCUP, All Workshop	3 Projects AI, Mobile	2 events AI Boot Camp, Silicon/AI Workshop
PhD Fellowship	Student Researchers	Student Travel Grants	exploreCSR
3 awardees Health Research, NLP 2 from NTU, 1 from NYCU	2 Students Plus 1 under review	17 awardees ACL, CHI, CVPR, DAC, ICASSP, ICCV, ICML, ICRA,etc	3 grants NTHU, NYCU, YZU (new in 2023)
Exchange / Meetings	Publications	Visits	DEI
Several Project meetings, etc.	Several papers From research collaboration	Several Campus + Google office	Female, Young 5 faculty members and 5 students

A Milestone in May 2023: Collaboration Announcement

- Announcement by National Cheng Kung University on May 2, 2023 [[link](#)]
- Announcement by National Taiwan University on May 4, 2023 [[link](#)]
- Announcement by Google on May 4 2023: 推動多項大學交流計畫幫助台灣科技發展 [[link](#)]

成功大學攜手Google 持續深化雙方學術合作

協助台灣推動先進科技發展 落實智慧台灣願景

國立成功大學-Google合作計畫發表暨交流會 與會人士大合照。成大/提供

AI、晶片、半導體 台大與Google擴大產學合作

台灣大學今天 (5/4) 宣布, 今年將深化與Google合作項目, 擴展到半導體、晶片設計、永續發展及AI (人工智慧) 等領域。

2020年起Google在台灣推動大學交流計畫 (Google University Relations Program), 與台大多項產學合作包括電機、資訊、機械等領域, 台大今天發布新聞稿表示, 近年與Google透過學術會議、營隊、研究贊助、共享知識產權等方式成果豐碩, 例如雙方合作AI創新研究廳已累積超過1500人參與。

台大指出, 今年起雙方會在現有基礎上持續合作, 並積極拓展到新興焦點領域, 包括先進人工智慧、永續發展等面向, Google將提供更多資源, 以各種形式支持台大教師和學生, 拓展合作的廣度和深度。

台大副校長廖婉君表示, 雙方未來合作的重要方向聚焦於Google搜尋引擎、雲端服務、及開源軟體方面, 影響力遍及世界, 以及台大在人工智慧、半導體、及環境永續等方面, 尤其在人才培育方面, Google過去幾年以多種方式挹注台大資源, 資助學生參與國際學術活動, 提供企業實習機會, 鼓勵女性族群, 期待雙方未來有更長遠、更多元深化的合作。

Google台灣董事總經理馬大康表示, 感謝台大在各計畫的大力支持, 期待透過產學交流, 深化台灣在關鍵技術領域的發展, 也將持續協助台灣推動先進科技發展, 期許共同落實智慧台灣願景。

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第一屆的「半導體研究計畫」, 有來自臺灣大學、成功大學、清華大學與陽明交大的8個團隊, 進行不同的研究, 領域相當多元, 其中包括架構與性能、圖像辨識工具與設計等。我們除了投入資源、幫助團隊進行研究, 也會和這些團隊合作。

過去三年以來, 我們已經很榮幸的與臺灣大學、成功大學、清華大學、陽明交通大學、臺灣科技大學這6所大學建立合作, 在智慧醫療、人工智慧、半導體等領域, 總共促成了23項研究, 加強了台灣在這些領域的競爭力。Google將會繼續支持這些研究, 期待未來能有更多合作機會。

Thoughts for Next Steps (2024)

- AI: **Generative AI and LLMs**, as the priority
- Keep going other areas including Silicon and Hardware technologies
- More opportunities on interactions including conf. / workshop sponsorship and student travel grants
- Fostering research DEI
- Co-develop the future talents through programs like Student Research Program

Program / Collaboration Examples

Research Grants

Working model

- Research Grant, not for open call, but nominated by Googlers (basically Google research scientists or engineers).
- Strong ties between Google research teams and academic teams working on areas that are of mutual interests, for example: AI/ML, NLP, Speech, Mobile, system, etc..
- A way to deepen the research collaborations based on prior interactions, targeting long-term collaborations.

Timeline

- Rolling basis
- Googler to submit application with the proposal [[template](#)] when there is mature idea.

Conference Sponsorship

- Sponsorship to both international or domestic research conferences, with the relevance to Google research, for example: AI/ML, NLP, Speech, etc.
- Request has to be submitted by Googlers on behalf of the external requester.
- Funding support based on needs, typically a few thousand US dollars.
- How to request? The process as below.

Step 1: Please reach out to [Google Contact](#) to help submit a sponsorship request on behalf of you.

Step 2: Google UR team will receive the application and then connect with you to request more details.

Step 3: Based on the detailed information, Google UR team will collect the review feedback by the review committee to make the decision.

Step 4: Approved or not, there is a message of communication on the decision.

Step 5: If approved, then Google UR team will follow on for payment. And invite Googlers to join the conference with the free tickets based on the sponsorship benefits.

GCP Credits Donation

If {GCP Credits value} > 5000 (US\$), Then

- Reach out to Google Sponsor or [Google Contact](#) through email to apply for GCP Credits on behalf of you.
- Please provide following information:
 - Purpose (or title of research):
 - Abstract or Description of research (1-2 paragraphs):
 - Total Credit amount requested (in USD): Please use the GCP calculator to determine the credit amount: <https://cloud.google.com/products/calculator/> :
 - GCP calculator screenshot (please keep the screen from previous step):
- Google review may take a few weeks before decision is made.

Otherwise {GCP Credits value} <= 5000 (US\$), Then

- Directly apply for the GCP Credits by filling in the [application form](#) online.

exploreCSR award

Fun AI Winter Camp @ NTHU (2021&2022 awardees)

PIs: *Min-Chun Hu, Hung-Kuo Chu, and Tse-Yu Pan*
Cooperated with Alvin Wen-Yu Su (NCKU) and PAIA

Objectives: We aim to support students in:

1. Acquiring new knowledge on Game AI with inspiring talks and tutorials with easy-to-follow examples
2. Brainstorming and modifying the baseline models to create their own Game AI models
3. Forming a study and research group in the field of Game AI



Google

Explore AI @ NYCU (2022 awardee)

PI: *Carrson C. Fung*

Objectives: aim of this project is to inspire and encourage Ukrainian high school and undergraduate students to study the field of signal processing for machine learning. Specifically

1. Hosted a 2-week virtual workshop for 20 students in Ukraine and local Ukrainian students to explore AI at NYCU, and completed a project that is commensurate with their skill level
2. Local students will also have a chance to visit several Taiwanese companies which uses machine learning in their products
3. 1 Ukrainian undergraduate student was invited to participate in our REU program for the summer
4. Details can be found at <https://explorecsr.ece.nycu.edu.tw/>



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