Google University Relations in S. Korea

- A Briefing and Q&A

November 30, 2023
East Asia University Relations, Google

Outline

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

Google

Google University Relations

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**

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Opportunities for Faculty

Research Grants	Research Scholar Program	Award for Inclusion Research Program	exploreCSR Program	Visiting Researcher Program
Supports research sponsored by Googlers. Not for open call but Google Sponsor applies for it on behalf of the Professor.	**Supports research conducted by early-career faculty** globally. Applications open in Fall.	Supports research addressing the needs of **populations historically underrepresented in the tech industry**. Applications open in Summer.	Awards that support universities to host **CS research workshops** to increase the number of **students from historically marginalized groups'** in CS research pathways.	Invite-only program for academic researchers to visit Google for 3-12 months to **collaborate with research and engineering teams.**

research.google/outreach

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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.google/outreach

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Research resources

Google Cloud Platform (GCP) [website]

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

Datasets [website]

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

TensorFlow [website]

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.

Cirq

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

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Google UR in S. Korea

Google UR in Korea since 2015

- 2015/2016: Started from PhD Fellowship Program and Student Travel Grants Program

  ○ PhD Fellowship program: ~2 awardees per year since then.

- 2018: AI research projects to foster AI research collaborations [4 awards]

- 2019: Further deepen the collaborations with universities in Korea [example: blog post]

- 2020: New programs and global UR program restructure

  ○ A first visiting researcher to the Seoul office

  ○ exploreCSR grant successful pilot in Korea, to foster CS research diversity

- 2021: Research collaborations with more universities:

  ○ Research grants to professors at KU, POSTECH, SNU, KAIST

- 2023: Research award programs for prioritized research areas

  ○ Awarded 6 research projects by Google Korea Model Optimization Program

  ○ Awarded 1 research project by Google Silicon Research Program

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.

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Program / Collaboration Examples

Research Grants

Working model

- Research Grant, not for open call, but nominated by Google researchers.
- 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
- Google researcher to submit application with the proposal when there is mature idea.

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Model Optimization Research Program

Objectives

- Build an academic-industry network for ML model optimization research.
- Accelerate the potential collaborations on model optimization techniques.

How it works

- Connect with Google researchers/engineers.
- Professors come up with proposals (2-3 pages) reflecting Google researchers' feedback.
- Google review committee to review proposals.
- Google decision and announcement.

Please proactively reach out to us if you are interested in this opportunity.

Silicon Research Program

Objectives

- Build an academic-industry network surrounding Silicon research
- Contribute to the open & inclusive Silicon research community
- Accelerate the potential collaborations on Silicon research efforts

How it works

- Connect with Google researchers/engineers to know their needs.
- Professors come up with proposals (2-3 pages).
- Google review committee to review proposals.
- Google decision and announcement.

Please proactively reach out to us if you are interested in this opportunity.

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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 Google researchers 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 University Relations 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 University Relations 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 <u>Google Contact</u> 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

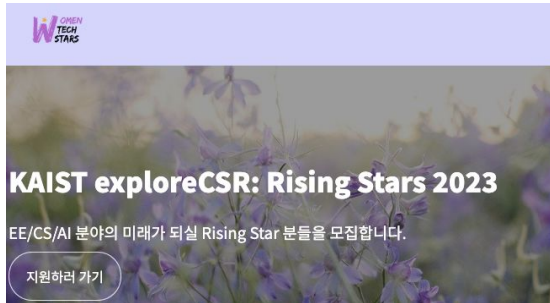- Directly apply for the GCP Credits by filling in the <u>application form</u> online.

exploreCSR award

KAIST exploreCSR: Rising Stars 2023 (2022 awardee)

PI: Sungjin Ahn from KAIST

Organize a workshop aiming to prepare talented women undergraduate and graduate students in EECS to prepare for the academic career.

https://womentechstars.github.io/index.html

Explore CSR Workshops (2022 awardee)

PI: Hyung-Sin Kim from SNU

- Exploring Research Areas Workshop
- Exploring Career Paths Workshop

ExploreCSR workshop (2022 awardee)

PI: Hyojin Sung from POSTECH

Workshop for women in EECS @ POSTECH.

https://www.postech.ac.kr/explorecsr-workshop/

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Visiting Researcher @ Google Seoul office

- Working on research projects at Google for a period of time, for example: 6 month or 12 months, with time commitment ranging from 50% to 100% (full time).
- Korea law now allows to take the cross-appointment role in the industry.
- Work with Google research or engineering teams, as well as the potential opportunities of accessing Google infrastructure and the data.

Security and Privacy	Computer Vision	ML Model Optimization
2020	2021	2022, 2023

Google

Google Contact

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