Joseph Suh

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Education

University of California at Berkeley 09/2023 – *Present*

Ph. D. program in Electrical Engineering and Computer Sciences

Advisors: Serina Chang, John Canny

Seoul National University 03/2017 – 02/2023

B.S. in Electrical and Computer Engineering (2-year absence due to Korean military service)

Advisor: Sunkyu Yu

Work

Microsoft Research Lab – Redmond 05/2026 – 08/2026

AI Interaction and Learning Group

Publications and Preprints

[9] Quantifying the Utility of User Simulators for Building Collaborative LLM Assistants

Joseph Suh, Ayush Raj, Minwoo Kang, and Serina Chang

Preprint

[8] Identity, Cooperation and Framing Effects within Groups of Real and Simulated Humans

Suhong Moon*, Minwoo Kang*, **Joseph Suh**, Mustafa Safdari, and John Canny

Preprint

[7] Graph-Based Alternatives to LLMs for Human Simulation

Joseph Suh, Suhong Moon, and Serina Chang

ACL 2026 (main)

[6] Deep Binding of Language Model Virtual Personas: a Study on Approximating Political Partisan Misperceptions

Minwoo Kang*, Suhong Moon*, Seung Hyeong Lee, Ayush Raj, **Joseph Suh**, and David M. Chan

CoLM 2025

[5] Language Model Fine-Tuning on Scaled Survey Data for Predicting Distributions of Public Opinions

Joseph Suh*, Erfan Jahanparast*, Suhong Moon*, Minwoo Kang*, and Serina Chang

ACL 2025 (main), American Association for Public Opinion Research (AAPOR) Conference 2025 (oral) (non-archival)

[4] Rediscovering the Latent Dimensions of Personality with Large Language Models as Trait Descriptors

Joseph Suh*, Suhong Moon*, Minwoo Kang*, and David M. Chan

NeurIPS 2024 workshop on Behavioral Machine Learning

[3] Virtual Personas for Language Models via an Anthology of Backstories

Suhong Moon*, Marwa Abdulhai*, Minwoo Kang*, **Joseph Suh***, Widyadewi Soedarmadji, Eran Kohen Behar, David M. Chan, and John Canny

EMNLP 2024 (main)

[2] Long-range-interacting topological photonic lattices breaking channel-bandwidth limit

Gyunghun Kim, **Joseph Suh**, Dayeong Lee, Namkyoo Park†, and Sunkyu Yu*

Nature Light: Science & Applications 13:189 (2024)

[1] Photonic Topological Spin Pump in Synthetic Frequency Dimensions

Joseph Suh, Gyunghun Kim, Hyungchul Park, Shanhui Fan, Namkyoo Park†, and Sunkyu Yu*

Physical Review Letters 132, 033803 (2024)

Honors and Awards

Doctoral Study Abroad Scholarship, *Korea Foundation for Advanced Studies* 09/2023 – *Present*

- Around 40 students selected nationally (4 students for the computer science)

Presidential Science Scholarship, *Korea Student Aid Foundation* 03/2017 – 08/2022

- Scholarship awarded under the name of the President of the Republic of Korea to science and engineering college students

34th Korea Olympiad in Informatics, 10th place, *Korean Institute of Information Scientists and Engineers* 2016

33rd Korea Olympiad in Informatics, 10th place, *Korean Institute of Information Scientists and Engineers* 2015

Teaching

Graduate teaching assistant, EECS 16B, EECS, UC Berkeley Fall 2024, Spring 2025

Undergraduate tutor, Basic Physics, Dept. of Physics, SNU 2018, 2020, 2021, 2022

Undergraduate tutor, Introduction to Data Structures, Dept. of ECE, SNU Fall 2020

Undergraduate teaching assistant, Programming Methodology, Dept. of ECE, SNU Fall 2018

Talks

VESSL AI, LLMs Research Colloquium: Bridging Startups & Academia Nov 2025

UC Berkeley, BAIR-RDI LLM Agent Workshop spotlight poster talk May 2025

Service

NeurIPS 2026 Reviewer May 2026

ARR Rolling Review January 2026

ICLR 2026 Reviewer Oct 2025

Conference on Language Modeling (CoLM) 2025 Reviewer June 2025

ARR Rolling Review May 2025

ARR Rolling Review February 2025