

# Joseph Suh

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Last updated: May 4, 2025

## 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

## Publications and Preprints

### [6] [Higher-Order 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

Under review

### [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

Under review

Accepted at American Association for Public Opinion Research (AAPOR) Conference 2025 (oral)

### [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

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

Gyunghun Kim, **Joseph Suh**, Dayeong Lee, Namkyoo Park<sup>†</sup>, 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<sup>†</sup>, and Sunkyu Yu\*

Physical Review Letters 132, 033803 (2024)

## Honors and Awards

**Doctoral Study Abroad Scholarship**, Korea Foundation for Advanced Studies

09/2023 – Present

**Presidential Science Scholarship**, Korea Student Aid Foundation

03/2017 – 08/2022

34<sup>th</sup> Korea Olympiad in Informatics, 10<sup>th</sup> place, Korean Institute of Information Scientists and Engineers

2016

33<sup>rd</sup> Korea Olympiad in Informatics, 10<sup>th</sup> place, Korean Institute of Information Scientists and Engineers

2015

## Teaching

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<b>Graduate teaching assistant, EECS 16B</b> , EECS, UC Berkeley	Fall 2024, Spring 2025
<b>Undergraduate tutor, Basic Physics</b> , Dept. of Physics, SNU	2018, 2020, 2021, 2022
<b>Undergraduate tutor, Introduction to Data Structures</b> , Dept. of ECE, SNU	Fall 2020
<b>Undergraduate teaching assistant, Programming Methodology</b> , Dept. of ECE, SNU	Fall 2018

## Talks

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

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ARR Rolling Review	February 2025
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