

# Huiwen Alex Yang

University of California, Berkeley

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## Education

### University of California, Berkeley

PHD, PSYCHOLOGY

- Advisor: Celeste Kidd

Berkeley, CA, USA

2023 - 2028 (expected)

### University of California, Berkeley

BA, COMPUTER SCIENCE, PHYSICS, PSYCHOLOGY

- Distinction in general scholarship

Berkeley, CA, USA

2017 - 2021

## Publications

### PUBLISHED

**Yang, H.A.**, Piantadosi, S., Kidd, C. 2023. Children's Estimation of Peripheral Information Drives Improvements in Approximate Number Sense. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.

Ji, C., Shen, H., Xiong, Z., Chen, F., Zhang, M., **Yang, H.** 2023. Prototypical Model with Novel Information-theoretic Loss Function for Generalized Zero Shot Learning. In *The 15th Asian Conference on Machine Learning*.

### IN REVIEW

**Yang, H.A.**, Martí, L., Baer, C., Granera, A., Palmeri, H., Kidd, C. Emergence of certainty representations for guiding concept learning.

**Yang, H.A.**, Thompson, B., Kidd, C. Children Spontaneously Discover Efficient Sorting Algorithms in a Seriation Task.

Ji, C., Gong, D., **Yang, H.A.** Deep Deterministic Neural Network with Hierarchical Gaussian Mixture Model for Uncertainty Quantification.

## Awards, Fellowships, & Grants

2023	<b>Berkeley Fellowship for Graduate Study</b> , UC Berkeley	\$ 34,000
2023	<b>Departmental Award</b> , UC Berkeley Graduate Diversity Program	\$ 500
2024	<b>Departmental Award</b> , UC Berkeley Graduate Diversity Program	\$ 500

## Presentations

### CONFERENCE PRESENTATIONS

**Yang, H.A.**, Martí, L., Baer, C., Granera, A., Palmeri, H., Kidd, C. 2023. Emergence of certainty representations for guiding language learning. Oral presentation: ProtoLang Conference, Rome, Italy.

### INVITED TALKS

Spring 2024. *Title TBD*. Guest Lecture, Psych 147: Methods in Cognitive Development, University of California, Berkeley.

## Teaching Experience

Spring 2024 **Psych 147: Methods of Cognitive Development**, Teaching Assistant

## Research Experience

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### University of California, Berkeley - Dept of Psychology - Kidd Lab

Berkeley, CA, USA

ADVISOR: DR. CELESTE KIDD AND DR. STEVEN PIANTADOSI

July 2021 – August 2023

- Research focus: Approximate number system, Attention and gaze, Algorithm acquisition, Certainty, Cognitive loads, Perceptions/bias

### Tsinghua University - Dept of Statistics - Deng's Lab

Beijing, China

ADVISOR: DR. KE DENG

June 2019 – August 2019

- Research focus: Statistic machine learning, Image classification, Neural network, Generalized zero-shot learning, Imbalanced dataset

### ICSI (International Computer Science Institute)

Berkeley, CA, USA

ADVISORS: DR. STELLA YU

November 2019– March 2020

- Research focus: Image reconstruction and classification, Dictionary learning, Sparse coding, Point set dataset

## Work Experience

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### Overeality Labs

Mountainview, CA, USA

FOUNDING TEAM MEMBER, VP OF PRODUCT & ASSISTANT TECH LEAD

June 2021 – May 2022

- Co-founded an NFT incubator that promotes DAO-selected NFTs to bring crypto culture into the Metaverse
- Led the product team that consists of 4 product designers and 9 programmers that designed and implemented the Web3 platform, Marketplace and various Web2 components
- Worked with solidity engineers and constructed a layer 1 blockchain
- Coordinated with the marketing team and the cryptography research team on designing features that best suit the needs of our product
- Acquired 130000 users in 6 months and raised 5 million dollars during the seed round

### Alibaba Group

Beijing, China

FRONTEND SOFTWARE ENGINEER INTERN

December 2018 – January 2019

- Developed a web-based data visualization platform using React and Node.js
- Helped the frontend developing team track their project progress, control their product pipelines and communicate with other software engineering teams