# TAKAHIRO ODA

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# **RESEARCH INTERESTS**

My research lies at combining of artificial intelligence and machine learning with social science and philosophy to create a combination that can be integrated into policy and business in order to design an unforeseen version of society. Especially I am interested in applying counterfactual policy evaluation and data-driven mechanism design to public issues, using human behavioral data obtained from interactive systems.

My work is situated at the intersection of computing, communities, and constructionism.

#### **EDUCATION**

# California Institute of Technology

Pasadena, CA

Ph.D. Student in Computer Science

expected from September 2022

Research Field: Economics and Computation, Machine Learning, History

**Keio University** 

Tokyo, Japan

Bachelor of Economics April 2018 – March 2022

## **EXPERIENCE**

# **Squirrel AI Learning by Yixue Group**

Shanghai, China

Research Partner (under an outsourcing agreement)

*April* 2020 – *November* 2021

Work on the research and practice of data-driven STEM education.

# **Carnegie Mellon University**

Pittsburgh, PA

Research Experience for Undergraduates

February 2020 – November 2021

Research on sourcing student open-ended solutions to create scalable learning opportunities under a supervision of Prof. Kenneth R. Koedinger.

atama plus, Inc.

Tokyo, Japan

Research and Development Intern

June 2019 – Present

Work on development and implementation of AI-based educational applications.

#### **INVOLD PROJECTS**

**Policy Garage** –is a Japanese NPO that accelerates independent projects for open innovation in public policies of Japanese local governments. A regular technical contributor and advisor since March 2021.

**Open Bandit Project** —is an open-source research project that aims to enable realistic and reproducible experiments on bandit algorithms and their off-policy evaluation. The project consists of a large-scale real-world dataset called Open Bandit Dataset and Python software called Open Bandit Pipeline. Awarded: **The Prime Minister's Award for Open Innovation** by the Japanese Government.

**LearnLab** – is originally funded by *the National Science Foundation*, and it leverages cognitive theory and computational modeling to identify the instructional conditions that lead to robust student learning. A regular contributor at *the Cognitive Factors Research Thrust* since 2020.

# **PROFESSIONAL SERVICES**

#### **Conference Program Committee**

ICLR 2022, WSDM 2022, NeurlPS 2021, AISTATS 2021, EC 2022.

# **EXTRACURRICULAR ACTIVITIES**

# **GEIL 2018~2019**

*May* 2018 – *September* 2019

Organized Japan's largest *Policy Making Contest for college students*. Designed, arranged and facilitated discussions on issues such as health inequities, intercultural society, and Japan's nuclear waste problem.

## **JENESYS 2019~2020**

February 2020, March 2021

A people-to-people exchange program between Japan and the Asia-Pacific region, sponsored by *the Ministry of Foreign Affairs of Japan*. Contributed from designing the discussion on foreign workers' problem to facilitating it at *Japan-ASEAN Student Conference 2019 and 2020*.

## **LANGUAGES**

Japanese(native), English(TOEFL iBT: 104)

## REFERENCES

Available upon Request.

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