## Hiroki Oda

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#### Education

# MSc Applied Social Data Science, London School of Economics and Political Science (with Distinction)

2023 - 2024

Modules: Computer Programming, Social Science Research Design, Managing and Visualising Data, Applied Machine Learning for Social Science, Causal Inference for Observational and Experimental Studies, Social Network Analysis

Supervisor: Dr. Milena Tsvetkova

### BA Sociology, The University of Tokyo

2015 - 2020

*Modules:* Principle of Sociology, Research Methods in Sociology, Quantitative analysis of inequality and social stratification, Sociological Theory, Sociology of science and technology, Dissertation

Supervisors: Prof. Sawako Shirahase, Prof. Kazuo Seiyama, Prof. Takeshi Deguchi

## Research Experience

## 1. Field experiments of social influence and contagion with AI-assisted bots

2024 - Present

A research project of field experiments on Reddit and other online platforms to investigate how AI agents affect human behavior through social influence and contagion with Dr. Milena Tsvetkova.

- Managed both human and clearly labeled bot accounts, utilizing large language models to generate interventions based on random, emotional, or rational strategies via scripting in Python.
- Analysed recipients' behavior and overall success metrics, contributing to novel methods for online experimentation involving AI agents and enhancing understanding of AI's role in human decision-making and social processes.

# 2. Algorithmic Influence on Music Genre Taste in Digital Music Platforms (GitHub Repo)

2023 - 2024

A dissertation for MSc degree at London School of Economics, Department of Methodology. (10,000 words, marked as **Distinction**)

- Conducted experimental research on the influence of recommendation algorithms on cultural tastes.
- Utilised network analysis to quantify the impact on music genre diversity and atypicality.

# 3. Empirical Analysis of Educational Assortative Mating in Japan

2019 - 2020

Bachelor's Dissertation Research for BA degree at The University of Tokyo, Department of Sociology. (60,000 words in Japanese, approx. 30,000 words in English, and awarded as **the best** thesis of the year)

- Analyzed mechanism of educational assortative mating in Japan from both quantitative and qualitative perspectives. Developed discussion of assortative mating on dating apps in Japan.
- Employed quantitative analysis to measure changes in mating patterns and quantitative interview method combined with the grounded theory approach to analyze the structure of assortative mating.

#### 4. Student Retention in Secondary Education in Cambodia

2018 - 2019

Field research project for the Global Education for Innovation and Leadership (GEfIL) Program analyzed educational sociological questions about student retention in the secondary educational scheme through qualitative interviews.

#### Conference Presentations

#### **Oral Presentations**

## "Social influence and behavioral contagion: A Reddit bot field experiment"

Jul 2025

11th International Conference on Computational Social Science (IC2S2), Norrköping, Sweden

# "Algorithmically Created Cultural Tastes: How Recommendation Algorithms in Digital Platforms Control Individuals' Music Tastes"

Jan 2025

CS2 Italy Conference, Trento, Italy

#### Poster Presentations

# "Algorithmically Created Cultural Tastes: How Recommendation Algorithms in Digital Platforms Control Individuals' Music Tastes"

Jun 2024

INSNA (International Network for Social Network Analysis) Sunbelt, Edinburgh, UK

#### Professional Experiences

## Research Assistant, London School of Economics and Political Science

2024 - Present

• Working on field experimental research on human-machine interaction with Dr Milena Tsvetkova at the HUMANET lab

#### Data Analyst and Software Developer, CADDi Inc. (Tokyo)

2022 - 2023

- Served as a leader in the Cost Algorithm Team
- Improved product cost discrepancy analysis, resulting in a 50% increase in cost estimation accuracy
- Designed and implemented a pioneering cost calculation logic in Python.

#### Business Strategy Consultant, Accenture Japan (Tokyo)

2020 - 2022

- Played a pivotal role in strategic planning for clients in Japan's manufacturing and electronics sectors.
- Developed business and operating models that led to a 30% cost reduction and a 10% profit increase for clients.

• Led big data analysis tasks (over 1M columns), substantially improving client operations and profitability.

### Additional Training

## Global Education for Innovation and Leadership (GEfIL) Program, The University of Tokyo

2017 - 2019

Modules: Research project on Rohingya refugees in Japan, Global Leader Lecture Series (problem-solving strategies by globally engaged speakers)

#### University Exchange Program, Durham University

2017 - 2018

*Modules:* Sociology of Work and Profession, Social Policy, Research Methods in Action, Economics of Social Policy, Microeconomics

#### Summer International Honors Program, Stanford University

2017

Intensive Studies, International Management

#### Summer School, Sciences Po Paris

2016

Social Sciences Track: Comparative Perspectives on Migration Issues

## Scholarships

#### GLP-GEfIL Scholarship for Abroad Experience

June 2017 / Feb 2019

Awarded for the summer program at Stanford and the research project in Cambodia.

#### Japan Student Services Organization (JASSO)

July 2017

Awarded for the exchange program at Durham University.

#### Alumni Scholarship for Abroad Experience

June 2016

Awarded for Science Po summer school.

#### Awards

#### Krone Award

The University of Tokyo, Department of Sociology

March 2020

The award for the most distinguished dissertation in a single year.

#### Technical Skills

**Programming Language** Python, R, SQL

Systems Git(Hub), Google Cloud Platform