

# Eunseo Dana Choi

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## EDUCATION

### Massachusetts Institute of Technology

Dual S.M. with Thesis in Computer Science & Technology Policy (fully-funded)

Cambridge, USA

### Northwestern University

Dual B.A. in Statistics & Economics with Kellogg Certificate in Managerial Analytics

Evanston, USA

## RELEVANT EXPERIENCE

### The Organisation of Economic Co-operation and Development (OECD.AI)

2024 – Present

AI Unit, Directorate for Science, Technology, and Innovation

Paris, France

- Manage a team of three part-time engineers to develop the OECD AI Policy Research Assistant, a RAG-based LLM tool. Direct product design and evaluation (automatic + human). Reduced search time by 58% and navigation clicks by 64% compared to legacy tools.
- Facilitate coordination across internal cross-functional teams and 200+ national contact points from 70+ countries to update 1,400+ initiatives in the OECD.AI policy database.
- Deliver briefings to 300+ policymakers and experts at AI Safety Institutes and the OECD Working Party on AI (GPAI).
- Advise OECD Head of Division and Unit on AI integration across divisions, providing strategic recommendations.
- Co-first author and lead coordinator of an expert survey and public consultation on thresholds for frontier AI, engaging 200+ stakeholders from academia, civil society, and the public/private sectors. Analyzed and synthesized findings for presentation at high-profile events.
- Co-organize panels on thresholds for frontier AI with the UK AI Security Institute at the French AI Action Summit within 4 weeks.

### Algorithmic Alignment Group at MIT CSAIL

2021 – 2023

Advisor: Dylan Hadfield-Menell

Cambridge, USA

- Designed and executed counterfactual experiments using agent-based models and multi-agent reinforcement learning (PyTorch, Ray RLlib) to study imitation as a mechanism for cultural inheritance. Investigated its role in complex skill learning and group stability in multi-agent systems.
- Led workshops on applying AI foundation models to business problems for 50 non-technical consultants from CSAIL member companies across 16 industries, overseeing a team of five.

### Olivetti Lab at MIT Department of Material Science and Engineering

2020 – 2022

Advisor: Elsa Olivetti

Cambridge, USA

- Developed and implemented Bayesian hierarchical regression models (PyMC2) and dynamic materials flow models (Python) to predict global material demand, including China, reducing parameter estimate uncertainty by over 50%. This paper was nominated for the 2023 JIE Best Paper Prize. [\[Publication\]](#)
- Presented technical findings to practitioners and leadership at a multinational technology company (NDA), evaluating the effectiveness of material efficiency strategies (e.g., recycling) in reducing industrial emissions. Project led to an extended research contract.

### Interaction Lab at KAIST (KIXLAB)

2020

Advisor: Juho Kim

Daejeon, Korea

- Conducted a mixed-methods study on user engagement aggregation in online discussions, involving 10 semi-structured interviews and a between-subjects study with 200+ participants, resulting in a published paper. [\[Publication\]](#)

### Lab on Innovation, Networks, and Knowledge at Northwestern University

2018 – 2019

Advisor: Agnes Horvat

Evanston, USA

- Developed and managed online experiments with Qualtrics (N=1250) to analyze the impact of crowd signaling on crowdfunding decisions. [\[Publication\]](#)
- Spearheaded research analyzing the impact of Airbnb's reputation system on user trust and community sustainability, utilizing exploratory data analysis of 150K+ structured booking records in R and conducting controlled experiments with Qualtrics (N=1000). [\[Publication\]](#)

## SKILLS, AWARDS, & SERVICE

**TOOLS AND FRAMEWORKS:** Python. R. SQL. Langchain. Ray. PyTorch. RLlib. Qualtrics survey design. Amazon Mechanical Turk.

**LANGUAGES:** English, Korean, French

**AWARDS:** Prize from the National Hangeul Product Competition (\$15,000, South Korea's Ministry of Culture, Sports and Tourism, 2018), Finalist for the Fletcher URG Prize (Northwestern, 2018), Research Grant (\$4500, Northwestern, 2018), GSC Conference Travel Grant (\$1000, MIT, 2023)

**SCHOLARSHIPS:** The Social and Ethical Responsibilities of Computing (SERC) Scholar, MIT (2020), KSEA Scholarship Recipient, Korean-American Scientists and Engineers Association (2019)

**SERVICE:** Reviewer (ICML 2023, NeurIPS Ethics 2023), Conference Volunteer (DIS 2021, CHI 2021, and FAccT 2022)