

# Robin Na

MIT Sloan School of Management

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✉ robinna@mit.edu

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## Research Interests

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Large Language Models, Knowledge Retrieval, Metascience, Human-AI Decision-Making

## Education

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**Massachusetts Institute of Technology**

**Cambridge, MA**

Ph.D. Candidate in Information Technology

2022 – Present

MicroMasters in Statistics and Data Science

**Seoul National University**

**Seoul, South Korea**

B.S. in Physics & B.A. in Knowledge Ecology (student-designed major)

2021

– *Summa Cum Laude*, Valedictorian (Dean's Award)

## Research Experience

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**Amazon Search AI**

**Palo Alto, CA**

Applied Scientist Intern — LLM+RAG for predicting heterogeneous treatment effects

2024

**Amazon Alexa AI**

**Seattle, WA**

Applied Scientist Intern — social network analysis and link prediction

2023

**Carnegie Mellon University**

**Pittsburgh, PA**

Predoctoral Researcher, Laboratory for Social Minds (PI: Simon DeDeo)

2021 – 2022

**New England Complex Systems Institute**

**Cambridge, MA**

Undergraduate Researcher (Mentors: Alexander Siegenfeld, Yaneer Bar-Yam)

2020 – 2021

**Arizona State University — Santa Fe Institute Center for Complex Systems**

**Tempe, AZ**

Undergraduate Researcher (Mentor: Bryan Daniels)

2020

**Seoul National University**

**Seoul, South Korea**

Undergraduate Researcher, Big Data Studies Lab (PI: Javier Cha)

2019

Undergraduate Researcher, Human-Centered Computing Lab (PI: Bongwon Suh)

2019

**Korea Advanced Institute of Science and Technology**

**Daejeon, South Korea**

Undergraduate Researcher, Complexity and Network Science Group (PI: Juyong Park)

2019

## Awards and Fellowships (Selected)

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### ○ Best Paper Awards

1. First Place, Seoul National University Presidential Award for Undergraduate Research 2021
2. First Place, Seoul National University College of Liberal Studies Academic Research Festival 2020
3. First Place, Seoul National University College of Liberal Studies Academic Research Festival 2019

### ○ Fellowships and Grants

1. SBS Foundation Graduate Scholarship (one of 3 STEM recipients in South Korea) 2022 – 2028
2. MIT Sloan PhD Fellowship 2022 – 2027
3. Seoul National University Undergraduate Research Grant 2020
4. Seoul National University Student-Designed Major Scholarship 2019 – 2021
5. Republic of Korea Presidential Science Scholarship in Physics (full tuition + stipend) 2015 – 2021

- Teaching and Service Awards
  - 1. Seoul National University Volunteer Service Award for Teaching North Korean Students 2020

## Publications

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- Work in Progress
  - 1. "The Effects of Academic Literature on Predicting Experiment Results in Social Science: Evidence from Generative AI, Supervised Machine Learning, and Humans" **Robin Na**, Abdullah Almaatouq.
  - 2. "Self-similarity in pandemic spread and fractal containment policies." Alexander F. Siegenfeld, Asier Piñeiro Orioli, **Robin Na**, Blake Elias, Yaneer Bar-Yam.
- Journal Articles (Peer-Reviewed) \*Equal Contributions
  - 1. "Snakes or Ladders? Measuring the Intergenerational Performance of Chosŏn's Munkwa Exam Candidates." **Robin W. Na\***, Javier Cha\*. *International Journal of Korean History*. 2021.
- Conference Proceedings (Refereed Full Paper)
  - 1. "The Diversity of Argument-Making in the Wild: from Assumptions and Definition to Causation and Anecdote in Reddit's 'Change My View.'" **Robin W. Na**, Simon DeDeo. *Proceedings of the 44<sup>th</sup> Annual Conference of the Cognitive Science Society*. 2022. [acceptance rate 27%, average reviewer score 4.33/5]
  - 2. "Multi-level Co-authorship Network Analysis on Interdisciplinarity: A Case Study on the Complexity Science Community." **Robin W. Na**, Bongwon Suh. *Proceedings of the 10<sup>th</sup> International Conference on Complex Systems* Springer, Cham. 2020.

## Invited Presentations

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- Workshop on Information Technologies and Systems (WITS 2024)
- INFORMS Annual Meeting (2024)
- MIT Conference on Digital Experimentation (CODE@MIT 2024)
- Stanford Polarization and Social Change Lab (2024)
- AI for Science Workshop at the International Conference on Machine Learning (ICML 2024)
- International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup> 2024)
- International Conference on the Science of Science and Innovation (ICSSI 2024)
- ACM Collective Intelligence Conference (ACM CI 2024)
- Annual Conference of the Cognitive Science Society (CogSci 2022)
- Cultural Evolution Society Conference (CES 2021)
- International School and Conference on Network Science (NetSci 2020)
- International Conference on Complex Systems (ICCS 2020)
- Graph Technologies in Digital Humanities (2020)

## Invited Workshops

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- Santa Fe Institute Complexity-GAINs Summer Institute on Intelligence & Representation 2023
- Theoretical Organizational Models (TOM) Summer School at Harvard Business School 2023

## Teaching Experience

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- Massachusetts Institute of Technology
  - 1. Teaching Assistant, Digital Revolution: From Foundations to Future Trends (15.561) Fall 2024
  - 2. Teaching Assistant, Action Learning Seminar on Analytics (A-Lab; 15.572) Fall 2023, 2024

Last Updated: September 26, 2024