

# Robin Na

MIT Sloan School of Management

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## Research Interests

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

## Education

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<b>Massachusetts Institute of Technology</b>	<b>Cambridge, MA</b>
Ph.D. Candidate in Information Technology	2022 – Present
<b>Seoul National University</b>	<b>Seoul, South Korea</b>
B.S. in Physics & B.A. in Knowledge Ecology (student-designed major)	2021
– <i>Summa Cum Laude</i> , Valedictorian (Dean's Award)	

## Research Experience

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<b>Amazon Search AI</b>	<b>Palo Alto, CA</b>
Applied Scientist Intern — LLM+RAG for predicting heterogeneous treatment effects	2024
<b>Amazon Alexa AI</b>	<b>Seattle, WA</b>
Applied Scientist Intern — social network analysis and link prediction	2023
<b>Carnegie Mellon University</b>	<b>Pittsburgh, PA</b>
Predoctoral Researcher, Laboratory for Social Minds (PI: Simon DeDeo)	2021 – 2022
<b>New England Complex Systems Institute</b>	<b>Cambridge, MA</b>
Undergraduate Researcher (Mentors: Alexander Siegenfeld, Yaneer Bar-Yam)	2020 – 2021
<b>Arizona State University — Santa Fe Institute Center for Complex Systems</b>	<b>Tempe, AZ</b>
Undergraduate Researcher (Mentor: Bryan Daniels)	2020
<b>Seoul National University</b>	<b>Seoul, South Korea</b>
Undergraduate Researcher, Big Data Studies Lab (PI: Javier Cha)	2019
Undergraduate Researcher, Human-Centered Computing Lab (PI: Bongwon Suh)	2019
<b>Korea Advanced Institute of Science and Technology</b>	<b>Daejeon, South Korea</b>
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. "Large Language Models as Tools for Research Synthesis and Evaluation" **Robin Na**, Abdullah Almaatouq. Presented at *ICML AI for Science Workshop*.
  2. "Self-similarity in Pandemic Spread and Fractal Containment Policies." Alexander F. Siegenfeld, Asier Piñeiro Orioli, **Robin Na**, Blake Elias, Yaneer Bar-Yam. Under Review.
- 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: October 18, 2024