

Robin Na

MIT Sloan School of Management

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in robinna

Research Interests

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

Education

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
– <i>Summa Cum Laude</i> , Valedictorian (Dean's Award)	

Research Experience

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 — reinforcement learning and optimization for social networks	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)

- 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

- Work in Progress
 - 1. "Language Models as Tools for Research Synthesis and Evaluation" **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 44th 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 10th International Conference on Complex Systems* Springer, Cham. 2020.

Invited Conference Presentations

- INFORMS Annual Meeting (2024)
- AI for Science Workshop at the International Conference on Machine Learning (ICML 2024)
- International Conference on Computational Social Science (IC²S² 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)

Workshops Invited and Participated

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

Teaching Experience

- 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 and Machine Learning (15.572) Fall 2023

Service

- Chairperson, Student Education Committee at Seoul National University (2016)

Last Updated: August 4, 2024