

Robin Na

MIT Sloan School of Management

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in robinna

Research Interests

Generative Models, Representation Learning, Language Models, Causal Inference, Metascience

Education

Massachusetts Institute of Technology	Cambridge, MA
Ph.D. Student in Information Technology, Sloan School of Management	2022 – Present
MicroMasters in Statistics and Data Science	2020
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 Science & Alexa AI	Seattle, WA
Ph.D. Research Intern in Machine Learning	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 Scholarship (awarded to 3 STEM PhDs 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 + stipends) 2015 – 2021
- Teaching and Service Awards
 1. Seoul National University Volunteer Service Award for Teaching North Korean Students 2020
 2. Korea Defense Intelligence Commander's (Maj. Gen.) Award for Outstanding Translation 2018

Publications

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.

Manuscripts in Preparation

1. "Self-similarity in Pandemic Spread and Fractal Containment Policies." Alexander F. Siegenfeld, **Robin Na**, Blake Elias, Yaneer Bar-Yam.

Conference Presentations (Selected)

1. "Argument-Making in the Wild." **Robin W. Na**, Simon DeDeo. *Cultural Evolution Society Conference*. 2021.
2. "Higher-order Generalization of Network Density: the k-power Clique Density and its Decay Period." **Robin W. Na**, Bryan Daniels, Kenneth Aiello. *International School and Conference on Network Science*. 2020.
3. "Decomposing Bibliographic Networks into Multiple Complete Layers." **Robin W. Na**, Bryan Daniels, Kenneth Aiello. *International Conference on Complex Systems*. 2020.
4. "Early Modern Korea's Localized Yangban Assemblages in Neo4j." Javier Cha, **Robin W. Na**. *Graph Technologies in Digital Humanities*. 2020.

Invited Workshops

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| 1. Santa Fe Institute Complexity-GAINs Summer Institute on Intelligence & Representation | 2023 |
| 2. Theoretical Organizational Models (TOM) Summer School at Harvard Business School | 2023 |

Teaching Experience

Massachusetts Institute of Technology

1. Teaching Assistant, Analytics Lab (15.572) Fall 2023

Skills

- Computer Languages: Python, R, SQL, MATLAB, NetLogo, UNIX Shell Scripting, \LaTeX , Markdown
- Computing Environments: Git version control, Resilient Distributed Dataset, Secure Shell, Google Colab
- Fluent in English and Korean
 - 21 months of mandatory military service as an English translator at Korea Defense Intelligence Command

Last Updated: October 11, 2023