

# Robin Na

MIT Sloan School of Management

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in robinna

## Research Interests

machine learning, research methodology | AI in social power, attention, and diversity

## Education

### Massachusetts Institute of Technology

Ph.D. Student in Information Technology, Sloan School of Management

MicroMasters in Statistics and Data Science

Cambridge, MA

2022 – Present

2020

### Seoul National University

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

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

Seoul, South Korea

2021

## Research Experience

### Amazon Science & Alexa AI

Ph.D. Research Intern in Machine Learning

Seattle, WA

2023

### Carnegie Mellon University

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

Pittsburgh, PA

2021 – 2022

### New England Complex Systems Institute

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

Cambridge, MA

2020 – 2021

### Arizona State University – Santa Fe Institute Center for Complex Systems

Undergraduate Researcher (Mentor: Bryan Daniels)

Tempe, AZ

2020

### Seoul National University

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

Seoul, South Korea

2019

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

2019

### Korea Advanced Institute of Science and Technology

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

Daejeon, South Korea

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 Fellowship for Future Talent (\$322,500) 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

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- Journal Articles (Peer-Reviewed) \*Equal Contributions
  1. "Snakes or Ladders? Measuring the Intergenerational Performance of Chosŏn's Munkwa Exam Candidates." **Robin Wooyeong 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 Wooyeong Na**, Bongwon Suh. *Proceedings of the 10<sup>th</sup> 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 W. Na**, Blake Elias, Yaneer Bar-Yam.

## Conference Presentations (Selected)

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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 Wooyeong Na**, Bryan Daniels, Kenneth Aiello. *International School and Conference on Network Science*. 2020.
3. "Decomposing Bibliographic Networks into Multiple Complete Layers." **Robin Wooyeong Na**, Bryan Daniels, Kenneth Aiello. *International Conference on Complex Systems*. 2020.
4. "Early Modern Korea's Localized Yangban Assemblages in Neo4j." Javier Cha, **Robin Wooyeong 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. Harvard Business School Computational Organizational Science Summer School            | 2023 |

## Skills

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- Computer Languages: Python, R, SQL, MATLAB, NetLogo, UNIX Shell Scripting, L<sup>A</sup>T<sub>E</sub>X, 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: June 22, 2023