

Robin Na

MIT Sloan School of Management

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in robinna

Research Interests

Computational Social Science, Network Science, Machine Learning, Collective Behavior, Social Media

Education

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|--|---------------------------|
| 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

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| 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 (Mentors: Bryan Daniels, Kenneth Aiello) | 2020 |
| Seoul National University | Seoul, South Korea |
| Undergraduate Researcher, Big Data Studies Lab (PI: Javier Cha) | 2019 |
| Korea Advanced Institute of Science and Technology | Daejeon, South Korea |
| Undergraduate Researcher, Complexity and Network Science Group (PI: Juyong Park) | 2019 |
| Seoul National University | Seoul, South Korea |
| Undergraduate Researcher, Human-Centered Computing Lab (PI: Bongwon Suh) | 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 Doctoral 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

Publications

o 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.

o 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 Wooyeong Na**, Bongwon Suh. *Proceedings of the 10th International Conference on Complex Systems* Springer, Cham. 2020.

o 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)

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 Talks

- o Student-Designed Major Exhibition, *Seoul National University College of Liberal Studies*

2020

Teaching Experience

Seoul National University

Seoul, South Korea

- o Physics/Calculus Instructor for undergraduates from North Korea

Fall 2020

Leadership Activities (Selected)

Seoul National University

Seoul, South Korea

- o Chairperson, Student Education Committee, College of Liberal Studies

2016

Korea Student Aid Foundation

Seoul, South Korea

- o Associate Leader, Volunteer Science Instructors for primary schools in underrepresented regions

2015

Skills

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

Last Updated: August 14, 2022