Dong Yeon Nam

PERSONAL DATA

Brith: 18th Jul 1996, in Republic of South Korea
Nationality: Korean
Gender: Male
Military Service: Yes
Email: dongyeon718@gmail.com

PERSONAL INFORMATION

I am an engineer who graduated from Soongsil University Graduate School of Bioinformatics. While attending undergraduate classes and working as a research intern, I became interested next-generation sequencing (NGS), Bio Artificial Intelligence and Machine Learning. I used to work as a researcher at Soongsil University's Biomedical Data Science Institute. And now I'm working in the development department at Macrogen Inc. I also use GitHub for version control and collaboration. You can find my GitHub profile at GitHub (https://github.com/dongyeon99).

WORK EXPERIENCE

AUG. 2024 ~ Present. **Macrogen Inc** — Seoul, Korea
Service Development Department

EDUCATION

Mar. 2015 ~ Feb. 2022 **Soongsil University** — Seoul, Korea
Department of Systems Biomedical Science
Graduate student (Bachelor of Science)
B.S., Major: Bioinformatics and Biotechnology
Advisor: Prof. Je-Keun Rhee

Sep. 2022 ~ Aug.2024 **Soongsil University** — Seoul, Korea
Bioinformatics
Undergraduate student (Master of Science)
M.S., Major: Bioinformatics
Advisor: Prof. Je-Keun Rhee

RESEARCH INTEREST

- ✓ Bio Artificial Intelligence
- ✓ Next Generation Sequencing (NGS)

RESEARCH EXPERIENCES

- **Undergraduate Research Assistant** — Mar. 2021 ~ Feb. 2022
  - ✓ at Biomedical Data Science Laboratory, Soongsil University
  - ✓ *Advisor: Prof. Je-Keun Rhee*

- **Researcher** — Mar. 2022 ~ Aug.2022
  - ✓ at Biomedical Data Science Laboratory, Soongsil University
  - ✓ *Advisor: Prof. Je-Keun Rhee*

SKILLS AND TECHNIQUES

- Software Language
  - ✓ R, Python
- Computer Skill
  - ✓ Linux

CERTIFICATIONS

- AI - AICE Associate
  July 12 (Sat), 2025

AWARDS

- This Year's Natural Science Research Encouragement Award

  Dec 9 (Fri), 2022

  College of Natural Sciences, Soongsil University

PUBLICATIONS

1. **Dong-Yeon Nam, Je-Keun Rhee**, Assessment of MicroRNAs Associated with Tumor Purity by Random Forest Regression. *Biology*,11:787, 2022.
2. **Dong-Yeon Nam, Je-Keun Rhee**, Identifying microRNAs associated with tumor immunotherapy response using an interpretable machine learning model. Sci Rep 14, 6172 (2024).
3. Lee J, Mo HL, Ha Y, **Nam DY**, Lim G, Park JW, Park S, Choi WY, Lee HJ, Rhee JK. Unraveling the three-dimensional genome structure using machine learning. BMB Rep. 2025 May;58(5):203-208.

PROJECT

- PERSONAL PROJECT

  Genome-Wide association study identifies genetic susceptibility loci about DNA repair activated by oxidativestress. (Practice of Biostatistics, 2020)

  CNN (Separable Conv2D) for identifying Invasive Ductal Carcinoma. (Bio Artificial Intelligence, 2021)

- TEAM PROJECT

  Development of next-generation genomic application technology for 4D-nucleome-based cardiomyopathy. (Sep.2022 – Aug.2024)

  Unraveling the three-dimensional genome structure using machine learning. BMB Rep. 2025 May;58(5):203-208.

WORKSHOP $ CONFERENCE

- 16th Asian Institute in Statistical Genetics and Genomics

  Workshop July 18 (Mon) - 23 (Sat), 2022

  Seoul National University, Global Education Center for Engineers

- 2022 Annual Conference of Korean Society for Bioinformatics October 19 (Wed) - 21 (Fri), 2022

  KAIST, Daejeon, Korea

- The 19th KOGO Winter Symposium
  February 01 (Wed) - 03 (Fri), 2023
  Vivaldi Park, Hongcheon-gun, Gangwon-do, Korea.

- 2023 Annual Conference of Korean Society for Bioinformatics November 13 (Mon) – 15 (Wed), 2023
  SONO CALM YEOSU, Grand Ballroom

- The 20th KOGO Winter Symposium
  January 31 (Wed) - February 02 (Fri), 2024
  Vivaldi Park, Hongcheon-gun, Gangwon-do, Korea.

CONFERENCE Posters

- 2023 Annual Conference of Korean Society for Bioinformatics November 13 (Mon) – 15 (Wed), 2023
  SONO CALM YEOSU, Grand Ballroom

  Poster: “Identifying microRNAs associated with tumor immunotherapy response using an interpretable machine learning model.”

- The 20th KOGO Winter Symposium
  January 31 (Wed) - February 02 (Fri), 2024
  Vivaldi Park, Hongcheon-gun, Gangwon-do, Korea.

  Poster: “Identifying microRNAs associated with tumor immunotherapy response using an interpretable machine learning model.

For more detailed information about me, please visit my personal website: https://dongyeon99.github.io/