

Curriculum Vitae - Rachel Seongeun Kim

Laboratory of Machine Learning and Bioinformatics
502-407, Seoul National University, 1 Gwanak-ro, Gwanak-gu, 08826 Seoul, Korea
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Research interests

Developing softwares for predictions and clustering of protein complex structures.
Understanding protein-protein interactions through screening with protein complex structure predictions.

Education

03/2018–08/2022 **B.Sc.** in Food biology & Engineering, Korea University, Korea

Research experience

Since 03/2023 **Integrated PhD candidate** with Prof. Dr. Martin Steinegger
Seoul National University, Seoul, Korea
09/2022-03/2023 **Lab intern** with Prof. Dr. Martin Steinegger (part time)
Seoul National University, Seoul, Korea
03/2022-08/2022 **Lab intern** with Prof. Dr. Hongseok Son (part time)
Korea University, Seoul, Korea

Industry experience

06/2011-04/2016 **Research assistant** (part time)
Danone Pulmuone, Seoul, Korea

Selected publications

Kim RS, Levy Karin E, Mirdita M, Chikhi R, Steinegger M.
BFVD—a large repository of predicted viral protein structures. *Nucleic Acids Research*,
gkae1119, 2024

Posters

Kim RS, Steinegger M.
Exploring AlphaFold2's capability in predicting intrinsically disordered protein interactions.
ISMB/ECCB 2023, July 23-27, 2023, Lyon, France.
Kim RS, Steinegger M.
Exploring AlphaFold2's capability in predicting intrinsically disordered protein interactions.
ICBP 2023, August 14-18, 2023, Seoul, Korea.
Kim RS, Cha S, Steinegger M.
Large-scale Clustering and Analysis of Quaternary Structures with Foldseek-Multimer-Cluster.
APBJC 2024, August 14-18, 2024, Okinawa, Japan.

Teaching & workshops

03/2023-08/2023 Teaching assistant, Introduction to bioinformatics at SNU, Korea.
03/2023-08/2023 Teaching assistant, Integrative computational biology at SNU, Korea.
07/2022 5th Genomic Data Analysis Specialist Basic Course 1,
Ministry of health and welfare, Korea

Funding, fellowships and achievements

2023	Excellent research talent fellowship, BK21, Korea KRW 5,000,000
2023	GSI scholarship, Seoul National University, Korea KRW 10,000,000

Peer review

I have peer reviewed publications in Bioinformatics, Nature Communications.