KIM, DONGWOOK

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CURRICULUM VITAE

Education

03/2019 - 02/2025	Ph.D. in Bioinformatics at Seoul National University
03/2019 - 02/2022	Completed Master's and Doctor's Integration Course in Bioinformatics at Seoul National University
03/2015 - 02/2019	B.S. in Biological Sciences, minor in Computer Sciences at Seoul National University, *cum laude*

Research experience

03/2022 - 02/2025	Expert Research Personnel at the College of Natural Sciences, Seoul National University. *full-time*
12/2021 - 02/2025	Ph.D. student at the Steinegger Lab., Seoul National University. *full-time*
03/2019 - 11/2021	Ph.D. student at the Laboratory of Evolutionary Bioinformatics, Seoul National University. *full-time*
06/2017 - 02/2019	Intern at the Laboratory of Evolutionary Bioinformatics, Seoul National University
06/2014 - 07/2014	Visiting student at the Neurovascular Research Laboratory, Department of Radiology, Massachusetts General Hospital, Harvard Medical School
03/2013 - 02/2014	Visiting student at Hyeon Soo Kim Lab., Department of Anatomy, College of Medicine, Korea University

ACHIEVEMENTS AND QUALIFICATIONS

Awards, Fellowships and Achievements

2025	KOGO Young Scientist Award
2017	Samsung Convergence Software Course Scholarship, KRW 1,000,000
2015	National Science & Technology Scholarship from the National Research Foundation of Korea, KRW 24,033,000

Certificates

2019	Advanced english proficiency, Test of English Proficiency (Score 492/600, percentile rank 94.65%)

Technical Strengths

Programming	Java, Rust, Python, C/C++, Linux, Shell scripting
Databases	SQL, MySQL

Languages

Korean	Native
English	Fluent
French	Beginner

TALKS, POSTERS, AND PUBLICATIONS

Talks

02/2025 The 21st KOGO Winter Symposium, Hongcheon, Korea, Introducing Unicore: A Scalable and Accurate Method for Structural Core Gene Phylogenetics

07/2023 ISMB/ECCB 2023, Lyon, France, UFCG: database of universal fungal core genes and pipeline for genome-wide phylogenetic analysis of fungi

11/2021 IMBG Young Scientist Symposium, Seoul, Korea, EzAAI - A High-Throughput Pipeline for Prokaryotic AAI Calculations

Posters

04/2025 RECOMB 2025, Seoul, Korea, Scalable and accurate structural core gene phylogeny with Unicore

02/2025 The 21st KOGO Winter Symposium, Hongcheon, Korea, Introducing Unicore: A Scalable and Accurate Method for Structural Core Gene Phylogenetics

07/2024 SMBE 2024, Puerto Vallarta, Mexico, Unicore Enables Ultra-fast and Accurate Phylogenetic Reconstruction with Structural Core Genes

07/2023 ISMB/ECCB 2023, Lyon, France, UFCG: database of universal fungal core genes and pipeline for genome-wide phylogenetic analysis of fungi

06/2020 ASM Microbe Online, Virtual, UUCGf: Whole-Genome Profiling Pipeline of Fungi with Fungal Core Gene Set for High-Resolution Phylogenetics

Publications

[1] **Kim D.**, Park S. and Steinegger M. (2024), Unicore enables scalable and accurate phylogenetic reconstruction with structural core genes, *bioRxiv*, doi: 10.1101/2024.12.22.629535

[2] **Kim D.**, Gilchrist C.L.M., Chun J. and Steinegger M. (2023), UFCG: database of universal fungal core genes and pipeline for genome-wide phylogenetic analysis of fungi, *Nucleic Acids Research*, doi: 10.1093/nar/gkac894

[3] Kim J., Na S., **Kim D.** and Chun J. (2022), UBCG2: Up-to-date bacterial core genes and pipeline for phylogenomic analysis, *Journal of Microbiology*, doi: 10.1007/s12275-021-1231-4

[4] **Kim D.**, Park S. and Chun J. (2021), Introducing EzAAI: a pipeline for high throughput calculations of prokaryotic average amino acid identity, *Journal of Microbiology*, doi: 10.1007/s12275-021-1154-0

Public source codes

EzAAI https://github.com/endixk/ezaai

UFCG https://github.com/steineggerlab/ufcg

Unicore https://github.com/steineggerlab/unicore