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

05/2025 -	Postdoctoral fellow at the Dessimoz Lab., University of Lausanne. *full-time*
03/2025 - 04/2025	Postdoctoral fellow at the Steinegger Lab., Seoul National University. *full-time*
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

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

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