

# KIM, DONGWOOK

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## CURRICULUM VITAE

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### 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 Comparative Genomics Group, University of Lausanne.  
PI: Prof. Christophe Dessimoz & Dr. Natasha Glover
- 03/2025 - 04/2025      Postdoctoral fellow at the Steinegger Lab., Seoul National University.  
PI: Prof. Martin Steinegger
- 12/2021 - 02/2025      Ph.D. candidate at the Steinegger Lab., Seoul National University.  
Advisor: Prof. Martin Steinegger
- 03/2019 - 11/2021      Ph.D. candidate at the Laboratory of Evolutionary Bioinformatics, Seoul National University.  
Advisor: Prof. Jongsik Chun
- 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

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### Talks

- 02/2025 The 21<sup>st</sup> 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 21<sup>st</sup> 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

### Peer-reviewed publications

- [1] **Kim D.**, Park S. and Steinegger M. (2025), Unicore enables scalable and accurate phylogenetic reconstruction with structural core genes, *Genome Biol. Evol.*, doi: [10.1093/gbe/evaf109](https://doi.org/10.1093/gbe/evaf109)
- [2] Park J., Lee G., Han Y., **Kim D.**, Heo K. et al. (2025), Structural basis of the catalytic and allosteric mechanism of bacterial acetyltransferase PatZ, *Proc. Natl. Acad. Sci. U. S. A.*, doi: [10.1073/pnas.2419096122](https://doi.org/10.1073/pnas.2419096122)
- [3] **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 Res.*, doi: [10.1093/nar/gkac894](https://doi.org/10.1093/nar/gkac894)
- [4] Kim J., Na S., **Kim D.** and Chun J. (2022), UBCG2: Up-to-date bacterial core genes and pipeline for phylogenomic analysis, *J. Microbiol.*, doi: [10.1007/s12275-021-1231-4](https://doi.org/10.1007/s12275-021-1231-4)
- [5] **Kim D.**, Park S. and Chun J. (2021), Introducing EzAAI: a pipeline for high throughput calculations of prokaryotic average amino acid identity, *J. Microbiol.*, doi: [10.1007/s12275-021-1154-0](https://doi.org/10.1007/s12275-021-1154-0)

### Public source codes

- Unicore <https://github.com/steineggerlab/unicore>
- UFCG <https://github.com/steineggerlab/ufcg>
- EzAAI <https://github.com/endixk/ezaai>

## ACHIEVEMENTS AND QUALIFICATIONS

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### Awards, Fellowships and Achievements

2025	KOGO Young Scientist Award
2021	IMBG 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%)
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### Technical Strengths

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

### Languages

Korean	Native
English	Fluent
French	Beginner