

CURRICULUM VITAE



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Position: Professor and Director

Institution: Seoul National University

Location: Seoul, Korea

Education:

1985 B.S., Seoul National University
1987 M.S., KAIST
1997 Ph.D., University of Iowa

Representative Careers:

1997 – 1998 Director of Bioinformatics, Biotechnology Center, The University of Illinois at Urbana-Champaign, Champaign, IL, USA
1998 – 2001 Senior Computer Scientist, DuPont Central Research and Development, DE, USA
2001 – 2011 Assistant Professor/Associate Professor/Chair of Faculty Division C, School of Informatics and Computing, Indiana University, Bloomington, IN, USA
2009 – 2011 Chair of Faculty Division C, School of Informatics and Computing, Indiana University, Bloomington, IN, USA
2011 – Present Professor, Department of Computer Science and Engineering, Seoul National University, Seoul, Korea
2011 – Present Director, Bioinformatics Institute, Seoul National University
2013- Present Editor, Methods journal
2017-Present Associate Editor-in-Chief, ACM/IEEE Transactions on Computational Biology and Bioinformatics

Specialty & Present Interest:

Bioinformatics, Machine Learning, Computer Algorithms

Representative papers (up to 5):

1. Seo SJ, Oh MS, Kim, S. DeepFam: Deep learning based alignment-free method for protein family modeling and prediction. *Bioinformatics (ISMB)*. 2018

2. Jung I, Jo K, Kang H, Ahn H, Yu Y, Kim S. TimesVector: a vectorized clustering approach to the analysis of time series transcriptome data from multiple phenotypes. *Bioinformatics*. 2017
3. Jo K, Jung IU, Moon JH, Kim S. Influence maximization in time bounded network identifies transcription factors regulating perturbed pathways. *Bioinformatics (ISMB)*. 2016
4. Park Y, Lim S, Nam J, Kim S. Measuring intratumor heterogeneity by network entropy using RNA-seq data, *Scientific Reports*, 2016
5. Rhee J, Kim K, Chae H, Evans J, Yan P, Zhang B, Gray J, Spellman P, Huang T, Nephew K and Kim S. Integrated Analysis of Genome-wide DNA Methylation and Gene Expression Profiles in Molecular Subtypes of Breast Cancer, *Nucleic Acids Res.* 2013