

# Dohoon Lee

Interdisciplinary Program in Bioinformatics  
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## EDUCATION

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Sep. 2017 ~ Present	<b>Seoul National University</b> Interdisciplinary Program in Bioinformatics <i>PhD Student</i> <i>Advisor: Prof. Sun Kim</i>	Seoul, Korea
Mar. 2013 ~ Aug. 2017	<b>Seoul National University</b> School of Biological Sciences <i>B.S., Major: Biological Sciences, Minor: Computer Science and Engineering</i> <i>Honors: summa cum laude (GPA 4.21/4.3)</i>	Seoul, Korea

## RESEARCH INTEREST

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- **Computational Biology/Epigenomics**
    - ✓ Inferring subclonal structure of cancer using next-generation sequencing data
    - ✓ Multi-omics integrative and genome-wide computational analysis of epigenomes
  - **Artificial Intelligence in Bioinformatics**
    - ✓ AI-based modeling of epigenomes
  - **Reproducibility in Bioinformatics Research**
    - ✓ Establishing reproducible and reusable bioinformatic pipelines

## PUBLICATIONS

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1. **D. Lee**, S. Lee, S. Kim (2019), PRISM: methylation pattern-based, reference-free inference of subclonal makeup, *Bioinformatics*.
  2. **D. Lee**, Y. Park, S. Kim (2020), Towards multi-omics characterization of tumor heterogeneity: a comprehensive review of statistical and machine learning approaches, *Briefings in Bioinformatics*.
  3. M. Kang, S. Lee, **D. Lee**, S. Kim (2020). Learning Cell-Type-Specific Gene Regulation Mechanisms by Multi-Attention Based Deep Learning with Regulatory Latent Space. *Frontiers in Genetics*.
  4. M. Oh, S. Park, S. Lee, **D. Lee**, S. Lim, D. Jeong, K. Jo, I. Jung, S. Kim (2020). DRIM: A web-based system for investigating drug response at the molecular level by condition-specific multi-omics data integration. *Frontiers in Genetics*.

## CONFERENCES

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1. **D. Lee**, S. Lee, S. Kim (2019), "PRISM: methylation pattern-based, reference-free inference of subclonal makeup", ISMB/ECCB 2019, Basel, Switzerland – *Oral presentation (Proceedings presentation)*.
  2. **D. Lee**, S. Lee, S. Kim (2019), "PRISM: methylation pattern-based, reference-free inference of subclonal makeup", BIOINFO 2019, Seoul, Korea – *Oral presentation (Award lecture session)*.

3. **D. Lee**, S. Lee, S. Kim (2019), “PRISM: methylation pattern-based, reference-free inference of subclonal makeup”, The Second Korea-Japan Machine Learning Workshop, Jeju, Korea – *Poster presentation*.

## RESEARCH EXPERIENCES

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- **Research Intern** at *School of Biological Sciences, Seoul National University* Sep. 2015 ~ Dec. 2016
  - ✓ Gut metagenome-based Type 2 diabetes prediction model using machine learning techniques

## AWARDS AND HONORS

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2020	Youlchon AI for All fellowship, Youlchon Foundation, Korea
2019	Outstanding Paper Award, BIOINFO 2019, Seoul, Korea
2019	Merit Award: <i>Bronze prize</i> , 45 <sup>th</sup> Annual Meeting of Korean Cancer Association and 5 <sup>th</sup> International Cancer Conference, Seoul, Korea
2017	Graduation with honors: <i>summa cum laude</i> , Seoul National University, Korea
2015 ~ 2016	KEF Domestic Scholarship, Kwanjeong Educational Foundation, Korea