Hannah Kim

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Research	Interest		
DISEASE DY	NAMICS VIRAL EVOLUTION ALGORITHM DEVELOPMENT		
Educatio	n		
Temple University		Philadelphia, PA	
PHD BIOINFORMATICS		08/2019 - 05/2024	
• Advisor: Dr	r. Sergei L Kosakovsky Pond		
Carnegie Mellon University		Pittsburgh, Pa	
MS COMPUTATIONAL BIOLOGY		08/2015 - 12/2016	
Carnegie Mellon University BS CHEMISTRY		Pittsburgh, P# 08/2010 - 05/2013	
Relevant	Experience		
2021	Bioinformatics Engineer, Lifetime Omics		
2017-2019	Bioinformatics Analyst / Software Engineer, Children's Hospital of Philadelphia		
2017	Research Programmer, Computational Biology Department, Carnegie Mellon University		
2016	Graduate Researcher, Computational Biology Department, Carnegie Mellon University		
2016	Course Developer, Computational Biology Department, Carnegie Mellon University		
2013-2014	Post-Baccalaureate Researcher, Department of Biological Sciences, Carnegie Mellon University		
2012-2013	Undergraduate Student Researcher, Department of Chemistry, Carnegie Mellon University		
2011	Student Intern, Summer Research Institute , Department of Biological Sciences, Carnegie Mellon University		
Publicati	ons		

PUBLISHED

- Ding, Y., **Kim, H.**, Madden, K., Loftus, J., Chen, G., Allen, D., Zhang, R., Xu, J., Chen, C., Xu, Y., Tasian, S., Tan, K. (2021). Network Analysis Reveals Synergistic Genetic Dependencies for Rational Combination Therapy in Philadelphia Chromosome-like Acute Lymphoblastic Leukemia. *Clinical Cancer Research*. doi:10.1158/1078-0432.CCR-21-0553
- Tarca, A. L., Pataki, B. Á., Romero, R., Sirota, M., Guan, Y., Kutum, R., Gomez-Lopez, N., Done, B., Bhatti, G., Yu, T., Andreoletti, G., Chaiworapongsa, T., The DREAM Preterm Birth Prediction Challenge Consortium, Hassan, S. S., Hsu, C., Aghaeepour, N., Stolovitzky, G., Csabai, I., Costello, J. C. (2021). Crowdsourcing assessment of maternal blood multiomics for predicting gestational age and preterm birth. Cell Reports Medicine, 2(6). doi:10.1016/j.xcrm.2021.100323
- Ichikawa, Y., Bruno, V. M., Woolford, C. A., **Kim, H.**, Do, E., Brewer, G., Mitchell, A. P. (2021). Environmentally contingent control of Candida albicans cell wall integrity by transcriptional regulator Cup9. *Genetics*. doi: 10.1093/genetics/iyab075
- Tao, Y., Rajaraman, A., Cui, X., Cui, Z., Chen, H., Zhao, Y., Eaton, J., **Kim, H.**, Ma, J., Schwartz, R. (2021). Assessing the Contribution of Tumor Mutational Phenotypes to Cancer Progression Risk. *PLOS Computational Biology*, 17(3). doi:10.1371/journal.pcbi.1008777
- He, B., Gao, P., Ding, Y., Chen, C., Chen, G., Chen, C., **Kim, H.**, Tasian, S. K., Hunger, S. P., Tan, K. (2020). Diverse noncoding mutations contribute to deregulation of cis-regulatory landscape in pediatric cancers. *Science Advances*, 6(30).

doi:10.1126/sciadv.aba3064

Lin, C., Jain, S., **Kim, H.**, Bar-Joseph, Z. (2017). Using neural networks for reducing the dimensions of single-cell RNA-Seq data. *Nucleic Acids Research*, 45(17). doi:10.1093/nar/gkx681

PREPRINT

Tao, Y., Rajaraman, A., Cui, X., Cui, Z., Eaton, J., **Kim, H.**, Ma, J., Schwartz, R. (2019). Improving personalized prediction of cancer prognoses with clonal evolution models. *bioRxiv*. doi:10.1101/761510

Presentations

* presenting author

CONTRIBUTED PRESENTATIONS

Hu, Y., Chen, C., Ding, Y.*, **Kim, H.**, Tan, K. (2019). Synergistic Control Genes in Cancer Gene Networks as Targets for Combination Therapy. Poster: Children's Hospital of Philadelphia Research Poster day and Scientific Symposium, Philadelphia, PA.

Awards, Fellowships, & Grants ______

2015	${\bf Departmental\ Merit\ Fellowship},$	Carnegie Mellon University	\$ 3000
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2013 Mellon College of Science Research Honors, Carnegie Mellon University

2012 **Summer Undergraduate Research Fellowship**, Carnegie Mellon University \$ 3500

Teaching Experience _____

^{*} awarded Research Assistantship unless otherwise noted

EOOOO	PIOI 2111/5111	Genomics in Medicine	Toaching Assistant
トノリノリ	RIOF-3111/2111	Genomics in Medicine	. Teaching Assistant

S2020 BIOL-1012 General Biology II, Teaching Assistant

F2019 BIOL-2112 Introduction to Cellular and Molecular Biology, Teaching Assistant

Doctoral Coursework

E2020	PIOL 5129 Cono	mics and Infactious	Disease Dynamics
FZUZU	DIOT-2179 GELIO	mics and injectious	Disease Dynamics

F2020 BIOL-8210 Seminar: "Ecoevo discuss"

Outreach & Professional Development ______

PROFESSIONAL MEMBERSHIPS

Diversity, Equity, and Inclusion in the College of Science and Technology (CST DEI), Student Representative, 11/2021-AnitaB.org, Member, 09/2021-

Biology Graduate Student Society (BGSS), Vice President, 09/2021-

Society for Molecular Biology and Evolution (SMBE), Member, 01/2021-

F2020 STAT-8109 Applied Statistics and Data Science

S2020 BIOL-5241 Genomics and Evolutionary Biology of Parasites

S2020 CIS-5517 Data-Intensive and Cloud Computing

S2020 CIS-5523 Knowledge Discovery and Data Mining

F2019 BIOL-5111 Genomics in Medicine

F2019 BIOL-5466 Topics in Bioinformatics

F2019 BIOL-8210 Seminar Biol 8210 at Center for Computational Genetics and Genomics

Philadelphia Korean Scholars Association (PKSA), Member, 06/2021-