# Hannah Kim

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Research	Interest	
DISEASE DY	NAMICS   VIRAL EVOLUTION   ALGORITHM DEVELOPMENT	
Education	n	
Temple University		Philadelphia, PA
• Advisor: Dr	RMATICS . Sergei L Kosakovsky Pond	2019 - present
Carnegie Mellon University		Pittsburgh, PA
MS Сомрита	tional Biology	2015 - 2016
Carnegie Me BS CHEMISTR	llon University	Pittsburgh, PA 2010 - 2013
Relevant	Experience	
2017-2019	Bioinformatics Analyst / Software Engineer, Children's Hospital of Philade	elphia
2017	Research Programmer, Computational Biology Department, Carnegie Mell	on University
2016	<b>Graduate Researcher</b> , Computational Biology Department, Carnegie Mello	-
2016	Course Developer, Computational Biology Department, Carnegie Mellon U	
2013-2014	Post-Baccalaureate Researcher, Department of Biological Sciences, Carne	-
2012-2013	Undergraduate Student Researcher, Department of Chemistry, Carnegie N	,
2011	<b>Student Intern, Summer Research Institute</b> , Department of Biological Sci	ences, Carnegie Mellon University
Publication	ons	

## **PUBLISHED**

- 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

#### **ACCEPTED**

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:10.1101/2021.01.06.425608

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., Hassan, S. S., Hsu, C., Aghaeepour, N., Stolovitzky, G., Csabai, I., Costello, J. C., DREAM Preterm Birth Prediction Challenge Consortium (2020). Crowdsourcing assessment of maternal blood multi-omics for predicting gestational age and preterm birth. Cell Reports Medicine. doi:10.1101/2020.06.05.130971

#### **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 \_\_\_\_\_

## **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.

# Teaching Experience \_\_\_\_\_

F2021	BIOL-3111/5111 Genomics in Medicine, Teaching Assistant

- F2020 **BIOL-3111/5111 Genomics in Medicine**, Teaching Assistant
- S2020 BIOL-1012 General Biology II, Teaching Assistant
- F2019 BIOL-2112 Introduction to Cellular and Molecular Biology, Teaching Assistant

# Graduate Coursework \_\_

F2020	<b>BIOL-5128 Genomics and Infectious Disease Dynamics</b>
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- F2020 BIOL-8210 Seminar: "Ecoevo discuss"
- 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

<sup>\*</sup> presenting author