# Hannah Kim

### Temple University, 1801 N Broad St, Philadelphia, PA 19122

➡ hannah.kim0007 [at] temple.edu | ♣ https://hannahkimincompbio.github.io | ☐ hannahkimincompbio

Research	ı Interest	
DISEASE DY	NAMICS   VIRAL EVOLUTION   ALGORITHM DEVELOPMENT	
Educatio	n	
Temple Univ	versity	Philadelphia, PA
PHD BIOINFORMATICS		2019 - present
• Advisor: Dr	r. Sergei L Kosakovsky Pond	
Carnegie Mellon University		Pittsburgh, PA
MS Сомрита	ATIONAL BIOLOGY	2015 - 2016
Carnegie Me BS CHEMISTR	ellon University	Pittsburgh, PA 2010 - 2013
Relevant	Experience	
2017-2019	Bioinformatics Analyst / Software Engineer, Children's Hospital of Philadelp	ohia
2017	Research Programmer, Computational Biology Department, Carnegie Mellor	
2016	Graduate Researcher, Computational Biology Department, Carnegie Mellon	University
2016	Course Developer, Computational Biology Department, Carnegie Mellon Univ	versity
2013-2014	Post-Baccalaureate Researcher, Department of Biological Sciences, Carnegion	-
2012-2013	Undergraduate Student Researcher, Department of Chemistry, Carnegie Me	-
2011	Student Intern, Summer Research Institute, Department of Biological Scien	nces, Carnegie Mellon University
Publicati	ons	
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### **PUBLISHED**

- 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., DREAM Preterm Birth Prediction Challenge Consortium, Hassan, S. S., Hsu, C., Aghaeepour, N., Stolovitzky, G., Csabai, I., Costello, J. C. (2020). Crowdsourcing assessment of maternal blood multi-omics 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

#### **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

#### **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.

## Awards, Fellowships, & Grants \_\_\_\_\_

2015	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

### 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

### Doctoral Coursework \_\_

- F2020 BIOL-5128 Genomics and Infectious Disease Dynamics
- 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

\$ 3500

<sup>\*</sup> presenting author