Hannah Kim

Temple University, 1925 N 12th St, Room 643, Philadelphia, PA 19122

■ hannah.kim0007@temple.edu | 🎓 https://hannahkimincompbio.github.io | 🛅 hannahkimincompbio

Research Interest _____ VIRAL EVOLUTION | ALGORITHM DEVELOPMENT | DISEASE DYNAMICS Education _____ **Temple University** Philadelphia, PA 08/2019 - 05/2024 PhD BIOINFORMATICS · Advisor: Dr. Sergei L Kosakovsky Pond **Carnegie Mellon University** Pittsburgh, PA MS COMPUTATIONAL BIOLOGY 08/2015 - 12/2016 **Carnegie Mellon University** Pittsburgh, PA 08/2010 - 05/2013 BS CHEMISTRY Relevant Experience ___ **Bioinformatics Engineer**, Lifetime Omics 2021-2022 Bioinformatics Analyst / Software Engineer, Children's Hospital of Philadelphia 2017-2019 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 Publications

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 _____

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
------	---	---------

\$ 3500

2013 Mellon College of Science Research Honors, Carnegie Mellon University

2012 **Summer Undergraduate Research Fellowship**, Carnegie Mellon University

Teaching Experience _____

^{*} awarded Research Assistantship unless otherwise noted

E2020	DIOL 2111/E111	Genomics in Medicine	Toaching Assistant
トノロノロ	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	BIOL-5128 Gen	omics and	Infectious	Dicasca Dvi	namice
FZUZU	DIOT-2170 GEII	uiiics aiiu	IIIIectious	DISEASE DVI	iaiiiics

F2020 BIOL-8210 Seminar: "Ecoevo discuss"

Outreach & Professional Development _____

PROFESSIONAL MEMBERSHIPS

Diversity, Equity, and Inclusion in the College of Science and Technology (CST DEI) Committee, 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-

^{*} presenting author

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, 06/2019-			
EDX			
Viruses and How to Beat Them: Cells, Immunity, Vaccines, IsraelX 2022			
Coding Languages			
PYTHON . R. MATLAB . BASH . JAVASCRIPT . GOLANG			

3