Hannah Kim

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Research Interest _____ DISEASE DYNAMICS | VIRAL EVOLUTION | ALGORITHM DEVELOPMENT Education _____ **Temple University** Philadelphia, PA 2019 - present PHD BIOINFORMATICS · Advisor: Dr. Sergei L Kosakovsky Pond **Carnegie Mellon University** Pittsburgh, PA MS COMPUTATIONAL BIOLOGY 2015 - 2016 **Carnegie Mellon University** Pittsburgh, PA **BS CHEMISTRY** 2010 - 2013 Relevant Experience _ 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

Published

Publications _____

- 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 non-coding 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_

* 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.

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 _

- F2021 BIOL-5128 Genomics and Infectious Disease Dynamics
- F2021 BIOL-8210 Seminar: "Ecoevo discuss"
- F2021 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