

EDUCATION	Johns Hopkins University, U.S. 2022 (expected) Ph.D., Biomedical Engineering Thesis: Probabilistic modeling of chromatin interactions Advisor: Mike Beer
	Huazhong University of Science and Technology, China 2017 B.Sc., Biotechnology
RESEARCH EXPERIENCE	Research Assistant , Mike Beer Lab, JHU, U.S. 2017-22 Developing mathematical models to predict chromatin interactions mediated by CTCF and regulatory elements in mammalian cell nucleus.
	Research Intern , Yi Xing Lab, UCLA, U.S. 2016 Assisted in developing expectation-maximum-based method for RBP-bound repetitive elements identification.
	Research Assistant , Kang Ning Lab, HUST, China 2016-17 Developed QC-Bind, a pipeline to do quality control on NGS data without reference genome of target species.
	Team Leader , iGEM 2015, Boston, U.S. 2015 Designed and led a synthetic biology project for eco-friendly cementation materials.
FELLOWSHIPS & AWARDS	Ph.D.
	Young Investigators' Day Award (Bao Gyo Jung), JHU 2021
	Graduate Student Spotlight, GSA, JHU 2021
	Undergraduate
	CSST Fellowship, UCLA 2016
	School Merit Student, HUST 2016
	School Merit Student, HUST 2015
	National Fellowship, Chinese Ministry of Education 2015
	iGEM Gold Medal 2015
	CSC Scholarship, China Scholarship Council [\$10,000] 2015
JOURNAL PUBLICATIONS	School Merit Student, HUST 2014
	National Fellowship, Chinese Ministry of Education 2014
	Xi, W. & Beer, M. A., "Loop competition and extrusion model predicts CTCF interaction specificity", Nature Communications, 2021.
	Xi, W.* , Gao, Y.*, Cheng, Z., Chen, C., Han, M., Yang, P., Ning, K, "Using QC-Blind for quality control and contamination screening of bacteria DNA sequencing data without reference genome", Frontiers in Microbiology, 2019.
	Xi, W. & Beer, M. A., "Local epigenomic state cannot discriminate interacting and non-interacting enhancer-promoter pairs with high accuracy", PLoS Computational Biology, 2018.

Tang, S.*, **Xi, W.***, Cheng, Z.*, Yin, L., Li, R., Wu, G., Liu W., Xu J., Xiang S., Zheng Y. Ge, Q., Ning K., Yan Y., Zhan Y, “A Living Eukaryotic Autocementation Kit from Surface Display of Silica Binding Peptides on *Yarrowia lipolytica*”, ACS synthetic biology, 2016.

TALKS	Encyclopedia of DNA Elements Consortium Meeting, U.S.	2021
	5th Annual Excellence in Diversity Symposium, JHU, U.S.	2021
	CSHL Systems Biology: Global Regulation of Gene Expression, U.S.	2020
	Cross-Disciplinary Scholars in Science and Technology, UCLA, U.S.	2016
POSTER PRESENTATIONS	VKS Higher-Order Chromatin Architecture in Time and Space, U.S.	2021
	CSHL Biology of Genome, U.S.	2019
	Encyclopedia of DNA Elements Consortium Meeting, U.S.	2019
	Encyclopedia of DNA Elements Consortium Meeting, U.S.	2018
TEACHING EXPERIENCE	Teaching Assistant , Johns Hopkins University	
	EN.580.454: Methods in Nucleic Acid Sequencing Lab	2021
	Instructor: Winston Timp	
	EN.580.644: Introduction to Data Science for Biomedical Engineering	2019
SCIENCE OUTREACH & VOLUNTEER	Instructor: Brian Caffo	
	Member, Fragile Nucleosome Journal Club	2021-
	Coordinating discussion of recent papers and preprints on chromatin research among experts, students and postdocs	
	Member, ENCODE Consortium Agenda Committee	2021-22
	Planning spring 2022 ENCODE consortium meeting (hybrid)	
	Lecturer, New Age Owls , Singapore	2020-21
	Teaching introductory Biology and Data Science courses to high school students	
	Director of Research, hopAI , JHU	2018-20
MEDIA COVERAGE	Held Artificial Intelligence(AI) related symposiums and workshops for Hopkins students	
	Young Investigators' Day 2021 News1 News2	