

Bowen Jin

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Appointment

07/2023-current **Postdoctoral Research Fellow**, Brigham & Woman's Hospital
07/2018-03/2023 **Research Assistant**, Case Western Reserve University

Education

Case Western Reserve University

Cleveland, Ohio

PH.D., SYSTEM BIOLOGY AND BIOINFORMATICS

07/2018 - 03/2023

- Advisor: William S. Bush, Ph.D.
- Dissertation: "Transcriptome-wide Study of Transcriptional Kinetics in Human Cells"

Huazhong University of Science and Technology

Hubei, China

B.S., PHYSICS

09/2014 - 06/2018

- Advisor: Shengyou Huang, Ph.D.
- Thesis: "Simulating protein conformation with coarse-grained models"

Publications

- Li B, **Jin B**, Capra JA, Bush WS. 2022. Integration of Protein Structure and Population-Scale DNA Sequence Data for Disease Gene Discovery and Variant Interpretation. *Annual Review of Biomedical Data Science* 5: 141–161.
- Grunin M, de Jong S, Palmer E, **Jin B**, Rinker D, Moth C, Capra JA, Haines JL, Bush WS, Den Hollander AI. 2022. Spatial modeling of variants in complement genes associated with age-related macular degeneration. *Investigative Ophthalmology & Visual Science* 63: 2627.
- Jin B**, Capra JA, Benchek P, Wheeler N, Naj AC, Hamilton-Nelson KL, Farrell JJ, Leung YY, Kunkle B, Vadarajan B, et al. 2022. An association test of the spatial distribution of rare missense variants within protein structures identifies Alzheimer's disease-related patterns. *Genome Res* 32: 778–790.
- Tang Z-Z, Sliwoski GR, Chen G, **Jin B**, Bush WS, Li B, Capra JA. 2020. PSCAN: Spatial scan tests guided by protein structures improve complex disease gene discovery and signal variant detection. *Genome Biol* 21: 217.
- Zhou P, **Jin B**, Li H, Huang S-Y. 2018. HPEPDOCK: a web server for blind peptide-protein docking based on a hierarchical algorithm. *Nucleic Acids Res* 46: W443–W450.
- Jin B**, Feng H, Bush WS. 2022. Allelic Transcription Factor binding shape transcriptional kinetics in human cell lines. *bioRxiv* 2022.09.21.508743.

Presentations

CONFERENCE TALKS

- Jin B**, Capra JA, Benchek P, Wheeler N, Naj AC, Hamilton-Nelson KL, Farrell JJ, Leung YY, Kunkle B, Vadarajan B. 2022. *Spatial Distribution of Rare Missense Variants Within Protein Structures is Associated with AD Risk*. Alzheimer's Association International Conference, San Diego, CA.
- Jin, B**, Feng H, Bush WS. 2022. *Allelic-specific transcription factor binding and chromatin accessibility shape promoter kinetics in human cell lines*. American Society of Human Genetics Annual Meeting, Los Angeles, CA.
- Jin, B**. 2022. Allelic-specific transcription factor binding and chromatin accessibility shape promoter kinetics in human cell lines. Tohoku Symposium, Cleveland, OH.

POSTER PRESENTATIONS

- Jin, B**, Bush WS. 2021. Transcriptomic mapping of bursting kinetics in human cells. Poster: American Society of Human Genetics Annual Meeting, Virtual Meeting

Jin B, Bush WS. 2021. Transcriptomic mapping of bursting kinetics in human cells. Poster: The Biomedical Graduate Student Symposium, Cleveland, OH

Jin B, Capra JA, Benchek P, Wheeler N, Naj AC, Hamilton-Nelson KL, Farrell JJ, Leung YY, Kunkle B, Vadarajan B. 2020. A protein structure-based association test for studying rare variants. Poster: American Society of Human Genetics Annual Meeting, Houston, TX

Jin B, Capra JA, Benchek P, Wheeler N, Naj AC, Hamilton-Nelson KL, Farrell JJ, Leung YY, Kunkle B, Vadarajan B. 2020. A protein structure-based association test for studying rare variants. Poster: The Biomedical Graduate Student Symposium, Cleveland, OH

Awards

10/2022 **SYBB Graduate Student Travel Award**, Department of Nutrition.

07/2022 **Graduate Student Travel Award**, School of Graduate Studies

Teaching Experience

Fall 2022	A Data-Driven Introduction to Genomics and Human Health , Teaching Assistant/Lecturer	<i>Cleveland, OH</i>
Summer 2022	Introduction to R Programming , Teaching Assistant/Lecturer	<i>Cleveland, OH</i>
Summer 2022	Introduction to Scientific Computing , Teaching Assistant/Lecturer	<i>Cleveland, OH</i>

Professional Development

SERVICE

2022	Case Western Reserve University Undergraduate Research: SOURCE Symposium , Volunteer Judge	<i>Cleveland, OH</i>
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PROFESSIONAL MEMBERSHIPS

American Society of Human Genetics
 Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART)

PEER REVIEW

Nucleic Acids Research
 Cell Reports Methods
 PLOS Biology