Curriculum Vitae

Yi Han (Betty) Huang

April 2, 2025

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Education

2023–Present **Johns Hopkins University**, Baltimore, MD
PhD Candidate in Cell, Molecular, Developmental Biology, and Biophysics
Advisor: Rajiv C. McCoy
Research Topic: Understanding the genetic mechanisms shaping variation in human gene expression and splicing

2023 **Johns Hopkins University**, Baltimore, MD
BS in Molecular and Cellular Biology, Graduated with Honors

Rotations

2024 Schatz Lab
Research topic: Long-read genome assembly of multiple dog breeds.

2024 Cunningham Lab
Research topic: Investigated anti-fungal resistance in *Candida glabrata* in response to Amphotericin B using Hermes Transposon screens and testing knockout mutants.

2023 McCoy Lab
Research topic: Investigated effects of rare genetic variation on splicing in human populations using MAGE dataset and Leafcutter.

2023 Wu Lab
Research topic: Utilized single-molecule tracking to investigate nuclear diffusion dynamics of individual SWR1 components.

Professional experience

2021–2023 Undergraduate Researcher, Department of Biology, Johns Hopkins University
DiRuggiero Lab
Research topic: Characterized different small non-coding RNA found in *Haloferax volcanii*. Investigated their regulation in oxidative stress to identify chaperone proteins involved in stress regulation.

Awards

2024 Presidential Membership Initiative Award, Genetics Society of America

Publications

Publications under review:

2025 Dallon, E., Moran, H., Chidambaran, S., Kian, A., **Huang, B.**, Fried, S., DiRuggiero, J. Investigation of the global translational response to oxidative stress in the model archaeon Haloferax volcanii reveals untranslated small RNAs with ribosome occupancy.

Teaching

Teaching Assistant

2025–Present Biochemistry Project Lab, Johns Hopkins (AS.020.315, Spring)
2024 Biochemistry Project Lab, Johns Hopkins (AS.020.315, Fall)

Research Mentorship

Undergraduates

2023 Arman Kian, B.S. in Biology, Johns Hopkins University