



Zeyang Shen, PhD

Zeyang Shen is an assistant professor in the School of Molecular Biosciences at Washington State University in Pullman, WA, USA. He is a computational biologist whose research lies at the intersection of microbiome science, genomics, bioinformatics, and machine learning.

Dr. Shen leads a research program focused on understanding how the microbiome contributes to human disease, with particular emphasis on atopic dermatitis. His research has been supported by a competitive NIH Pathway to Independence Award (K99/R00), and he is a recipient of Washington State University's President's Big Ideas Initiative award, which supports the development of an interdisciplinary precision biology platform integrating multi-omics, organoid-on-a-chip systems, and artificial intelligence.

In addition to his research, Dr. Shen is committed to training the next generation of scientists and to fostering an inclusive, collaborative research environment. He is active in scientific service and has served as an early-career editor for *mBio*.

Before joining Washington State University, Dr. Shen completed his postdoctoral training in the laboratory of Dr. Julie Segre at the National Human Genome Research Institute, where he studied the infant skin microbiome and its role in atopic disease. He earned his PhD from the University of California San Diego in the laboratory of Dr. Christopher Glass, where he developed computational and machine learning approaches to study gene regulation and transcription factor binding. Across these areas, his work has contributed new analytical frameworks for extracting biological insight from high-dimensional genomic data.