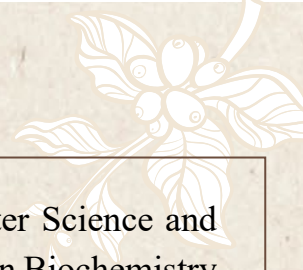


# Speaker Bio



**Prof. Kuan Y. Chang (張光遠)** is a professor in the Department of Computer Science and Engineering at **National Taiwan Ocean University (NTOU)**. He holds a B.S. in Biochemistry and Computer Science from the University of Arizona, an M.S. in Computer Science from Cornell University, and a Ph.D. in Computational Biology from Washington University in St. Louis, mentored by Dr. Emil Unanue. His research experience spans Cold Spring Harbor Laboratory, Cornell University, and Academia Sinica, integrating biology, medicine, and computational science.

Prof. Chang's research centers on artificial intelligence, computational biology, and health informatics, with a particular focus on computational immunology and infectious diseases. His lab develops AI-driven tools to analyze immune responses, pathogens, and biomedical data. Key contributions include **DeepFlu**, a model predicting influenza A infection from pre-exposure gene expression, and computational studies identifying drug candidates and polyphenol inhibitors for COVID-19. His public health research explores cancer mortality trends in Taiwan, environmental links to chronic kidney disease, and antimicrobial peptides for novel therapies.

Extending beyond human health, Prof. Chang applies machine learning to aquaculture and environmental science. His team investigates how water parameters—temperature, salinity, pH—affect fish farming, and explores AI solutions for sustainable aquaculture systems.

He has published widely in leading journals across computer science, bioinformatics, immunology, and environmental health, including *Nucleic Acids Research*, *International Journal of Molecular Sciences*, *Computer Methods and Programs in Biomedicine*, and *Cancer Epidemiology*. Many of his works rank among the most cited in their fields, reflecting his impact on both computational and biomedical research.