

Empowering Biomedical Science Through AI

Chi-Cheng Fu, PhD
Senior Developer Relations Manager
NVIDIA

Abstract:

This lecture explores the convergence of AI with High-Performance Computing (HPC) in biomedical science. Highlighted technologies include NVIDIA Parabricks for rapid genomic analysis, RAPIDS for accelerated omics data processing on GPUs, NVIDIA BioNeMo for efficient AI in drug discovery, and NVIDIA Clara MONAI for advanced AI in biomedical imaging. Together, these advancements with Generative AI represent a pivotal leap forward in accelerating healthcare research.

Biography:

Dr. Chi-Cheng Fu, Senior Developer Relations Manager at NVIDIA, is influencing top researchers and premier institutions to use NVIDIA platforms for scientific breakthroughs that advance their fields. With a Ph.D. in Bioengineering from UC Berkeley and a postdoc at HHMI, Dr. Fu's research spans AI applications in medicine, single stem cell genomics, biochips, and nanotechnology. His significant contributions have been published in prestigious journals, including Science, Nature Nanotechnology, PNAS, Advanced Materials, and Radiology.