AI/ML in Pediatric Research

Joanne Chun, PharmD, PhD
Director, Postgraduate Education Programs
Dean's Office, School of Pharmacy
Director, MS in AICD3
Bioengineering and Therapeutic Sciences
Schools of Pharmacy and Medicine
UCSF

Dr. Joanne Chun is the Director and founding architect of the Master of Science in Artificial Intelligence and Computational Drug Discovery and Development (AICD3) program at the University of California, San Francisco (UCSF). This pioneering program is one of the first of its kind in the U.S., training students to apply AI, machine learning, and advanced computational techniques across the drug discovery and development spectrum, including translational medicine and pharmacovigilance. Dr. Chun's interdisciplinary background in pharmaceutical sciences, molecular biology, and software engineering, allows her to integrate interdisciplinary approaches to train the next generation of leaders to drive innovation in computational drug discovery and development.

In addition to directing the AICD3 program, Dr. Chun is an Assistant Professor in Bioengineering and Therapeutic Sciences at UCSF. She plays an instrumental role in UCSF School of Pharmacy's curriculum, leading courses in pharmacokinetics, pharmacodynamics, pharmacogenetics, and digital therapeutics across the PhD (Pharmaceutical Sciences and Pharmacogenomics), PharmD, and MS programs. Her research and teaching underscore her dedication to advancing patient care through computational methods, especially in areas where traditional drug development has shown limitations.

Dr. Chun is also the Director of Postgraduate Education Programs, spearheading the creation and development of new educational programs to enhance learning and create transformative opportunities for graduates in drug discovery and development.

Dr. Chun holds a PharmD and PhD from UCSF, complemented by a full-stack software engineering background from UC Berkeley. Her unique blend of clinical expertise and advanced technical skills positions her at the forefront of AI in drug discovery and development.