2023 MARVIN ZELEN MEMORIAL SYMPOSIUM

WELCOME Rafael Irizarry

DESIGNING MACHINE LEARNING PROCESSES Marzyeh Ghassemi FOR EOUITABLE HEALTH SYSTEMS

MULTICELLULAR NETWORKS: IMMUNITY HUBS Jonathan Chen

IN HUMAN NSCLC

OPPORTUNITIES AND CHALLENGES FOR Jayashree Kalpathy-Cramer

MEDICAL IMAGING AI- LESSONS FROM ONCOLOGY AND OPHTHALMOLOGY

AI FOR MAMMOGRAPHY: FROM ALGORITHMS Bill Lotter

TO CLINICAL INTEGRATION

BREAK

FORTUNE-TELLING WITH IMAGES: PAINTING Shantanu Singh CELLS FOR DISCOVERING DRUGS

CLLL3 FOR DISCOVERING DROGS

AI-POWERED TUMOR MICROENVIRONMENT Andy Beck
CHARACTERIZATION

LEARNING TO READ XRAY: APPLICATIONS TO Polina Golland

HEART FAILURE MONITORING

CLOSING Martin Arvee

RECEPTION

7 APRIL 2023 • 1:00 PM • SIMMONS UNIVERSITY

MARVIN ZELEN



Professor Marvin Zelen began his career in statistics in the 1950's. Over the course of his long career, he advanced the field of statistical science and practiced its applications in biomedical science. Most notably, his research had significant impact in areas of experimental designs, randomization methods, designs of cancer clinical trials and early detection of cancer. A leading innovator in his field, Marvin was known for pioneering the statistical methods and study designs used in clinical cancer trials today.

He helped create what is now the Department of Data Science at Dana-Farber in the 1970s, and was its Chair for many years. Additionally, he taught statistical science at the Harvard School of Public Health, chairing the Department of Biostatistics from 1981-1990. In 2012, he was awarded the Karl E. Peace Award for "Outstanding Statistical Contributions for the Betterment of Society." He authored over 200 scientific publications. He was a visionary leader and inspiring colleague. In 1975, Marvin founded the Frontier Science and Technology Research Foundation, and in 2000 he and his wife Thelma Zelen made a gift to Dana-Farber Cancer Institute to establish the Zelen Endowed Lectureship Fund, which supports an annual endowed lecture in statistical science. In 2015, Thelma Zelen made another substantial gift to support the present symposium, and the lecture was renamed the DFCI-FSTRF Marvin Zelen Memorial Symposium. Thelma has been a dedicated and active supporter of Dana-Farber's mission for more than 30 years.

In addition to the Symposium, Thelma has been a loyal contributor to the Institute's annual giving program and longtime member of the Friends of Dana-Farber Cancer Institute. We remain grateful for all the Zelen family has done for Dana-Farber over the years, and we are honored to hold this annual symposium, which bears Marvin's name.

Our Speakers

Andy Beck, MD, PhD
Co-founder & CEO, Path AI

Jonathan Chen, MD, PhD Instructor in Pathology, Massachusetts General Hospital

Marzyeh Ghassemi, PhD Assistant Professor, Massachusetts Institute of Technology

Polina Golland, PhD
Professor, Massachusetts Institute of Technology

Jayashree Kalpathy-Cramer, PhD Professor, University of Colorado, Massachusetts General Hospital, and Harvard Medical School

William Lotter, PhD Member of the Faculty, Dana-Farber Cancer Institute and Harvard Medical School

Shantanu Singh, PhD Senior Group Leader, The Broad Institute