

# Speaker's Biosketch

ICoLA 2024

**Injeong Shim (Massachusetts General Hospital, Broad Institute of MIT and Harvard, USA)**

Dr. Injeong Shim is a Research Fellow at Massachusetts General Hospital, Harvard Medical School, and the Broad Institute of MIT and Harvard, working under the mentorship of Dr. Pradeep Natarajan and Dr. Akl C. Fahed. She recently completed her Ph.D. in Digital Health at Samsung Advanced Institute for Health Sciences & Technology, Sungkyunkwan University under the supervision of Dr. Hong-Hee Won and holds a B.S. in Biomedical Engineering from Johns Hopkins University. Dr. Shim's research lies at the intersection of genomics, data science, and cardiovascular medicine, focusing on leveraging these fields to improve risk prediction and personalized medicine for cardiometabolic diseases. She develops and applies polygenic risk scores to explore the complex interactions between genetic risk factors and lifestyle in conditions such as obesity and related disorders. Dr. Shim is also interested in integrating multi-omics data to identify novel therapeutic targets for complex diseases. Recognizing the importance of diversity in genetic studies, she investigates how genetic risk assessment can be adapted for different ethnic backgrounds. A significant aspect of her research involves examining how polygenic background may influence disease risk in monogenic conditions like familial hypercholesterolemia. Her recent works published in *Cell Metabolism*, *Nature Communications*, and *JACC: Advances*.