

Fall 2019 Conference Event-At-A-Glance

“Intersections between informatics, data science and population science”: The Fall 2019 Symposium is our 14th organized NCI & Community Cancer Center Informatics Symposium. For this conference we focus on the integration of data science and informatics with population science in order to advance our understanding of cancer etiology, identify new approaches for cancer prevention and early detection, improve cancer patient outcomes and enhance cancer care delivery throughout the community.

Data collection and analysis has continuously evolved within the context of population science studies, increasingly incorporating digital tools and virtual strategies for assessment of exposures and health behaviors. Furthermore, as we seek to unravel the complexity of cancer, novel informatics approaches are required to integrate and analyze data across multiple biological scales, including genomics, pathology and radiology based images, clinical and patient-reported outcomes. Given the complexity and amount of data currently available on cancer patients and populations at risk of cancer, further convergence of data and population sciences will be required to effectively advance data capture, integration and analysis, with the common goal of reducing the cancer disease burden in the population. In addition, there is a heightened focus in the CCSG on catchment area research and impact, meaning that each cancer center must meaningfully understand and impact the health of the communities they serve.

The Fall 2019 CI4CC conference will cover topics such as collection of cancer risk factor information and outcomes through digital tools, data science approaches for advancing insights from cohort and other large scale population-based studies, data linkages for catchment area research, strategic approaches to creating and maintaining electronic data warehouses for the advancement cancer research and care delivery (including common data models), leveraging artificial intelligence for observational research, and evolving CCSG cores to support optimal data access, integration and analysis