

## BIO SUMMARY

Ananda Mohan Mondal is a full-time tenure-track Assistant Professor of Computer Science in the Knight Foundation School of Computing and Information Sciences (KFSCIS) at Florida International University (FIU), an R1 public research university in Miami, Florida. His research interests are centered on the intersection of computational biology, health informatics, and artificial intelligence, with particular interest in algorithmic cancer biology, explainable machine learning, and precision medicine. His research can be divided into two dimensions: ***Methodology Development*** based on graph theory, feature selection, and explainable AI; ***Applications to Precision Medicine***, including disease biomarker discovery and estimating the level of intratumor heterogeneity.

Cancer is a complex, multifactorial disease. Advances in computational biology and AI have pushed the frontiers of our understanding in this field at a tremendous pace. Mondal is currently focused on studying intratumor heterogeneity with the long-term goal of addressing basic questions in cancer precision medicine, namely, how does a tumor evolve? how can we study drug response? and, how can we address drug resistance? He earned his Ph.D. from the University of South Carolina (USC) in Computer Science and Engineering in 2011 under the supervision of Dr. Jianjun Hu. He also earned a Master of Engineering in Computer Science and Engineering from USC in 2003 and a Bachelor of Science in Chemical Engineering from the Bangladesh University of Engineering and Technology (BUET) in 1991.

Before joining FIU, Dr. Mondal worked as a lecturer and then an assistant professor in the department of Chemical Engineering at BUET (1991–1997). Then he worked at Claflin University in South Carolina, USA, primarily a teaching institute, for 15 years, first as a database administrator (2003–2005), then as an instructor (2005–2012), an assistant professor (2012–2018), and a tenured associate professor (2018–2018) of Computer Science. He received the prestigious NSF CAREER RUI (Research in Undergraduate Institute) in 2017. In 2018, he joined FIU as a tenure-track assistant professor by sacrificing his tenured associate professor rank at Claflin University.

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