

**Dr. Isaac Vaghefi, Dr. Zhan Zhang**  
**Information Systems Seidenberg School of CSIS**

**An examination of adherence to contact tracing technology during COVID19 pandemic**

COVID19 pandemic has created significant challenges for our society, with significant consequences on every aspect of our lives. In the absence of widespread access to treatment, contact tracing has been shown to be a promising and realistic response to control and contain spread of this virus. While some healthcare systems and hospital workers may have access to highly accurate location high-cost trackers are not available to the public general population. Alternatively, smartphone contact tracing applications were utilized in some countries; yet the adoption and use of these apps when non-mandated is low. Our goal is to contribute to better understanding of factors and issues that contribute to one's decision to adopt and use contact tracing application. First, we conduct a case survey study of the published cases that report use of these technologies. We use iterative coding and qualitative comparative analysis to develop a framework of important elements related to use of contact tracing applications. We will test this framework in a quantitative study. Based on the insights drawn from these two studies he will develop a proof-of-concept contact tracing app prototype. Our results will provide contributions to interdisciplinary research in information systems, and health informatics, among others.