Narrative Summary of Research

My research is in the field of Big Data, Machine Learning, and Data Analytics. I have been actively involved in research related to these fields in collaboration with faculty and students in Clarkson University and undergraduate students in our department.

Since I joined SUNY Potsdam, I have published 2 peer-reviewed journal publications, made 8 conference presentations, conducted an international workshop on data analytics, and presented 3 department seminars.

My recent research projects have been on modeling air quality using land-use information and understanding the connection between air quality exposure and severity of COVID-19 disease. Related to these projects, I submitted a manuscript entitled "..." for publication in a peer-reviewed journal in Feb 2021. I have also presented research related to both these projects in conferences, including the American Association for Aerosol Research (one in October 2019 and one in October 2020) and in Research and Projects Showcase conference in Clarkson University (June 2020). My work was accepted for poster presentation in Air Sensors International Conference in May 2020, but that conference was canceled due to the pandemic.

I have been actively looking to find funding for my research activities. In 2020, I submitted a proposal to NYSERDA for supporting data analysis for a large air quality network. That proposal did not get funded, but I will continue to look for funding opportunities that will sustain my research over a long time period.

The pandemic initially posed a challenge for our research as we had to change our mode of operation from regular in person meetings to online collaboration. Over the course of time, we have optimized the process and now our research productivity is now back to normal.