**Statement of research**

**Project Title:**

Scatterplots based visualization techniques for exploring multidimensional data.

**Project Goals:**

Scatterplot is a visualization technique used to represent the relationship of bivariate data as a set of points in the plane. They are widely used, easy to understand and intuitive while dealing with pairs of two-dimensional variables. The primary goal of this project is to develop a scatterplot based visual analytics tool to help users interactively explore text data. The dataset that will be used for this project is a collection of the descriptions of various startups. The aim is to find out what categories of startups exist, market opportunities, and potentially signatures for what makes these startups successful.

**Solution approach**

This project builds on the work done in developing the Interaxis visual analytic technique. The dataset we plan to use consists of startups and their business description/strategy. We have this dataset currently available. We plan to consider different design and computational alternatives to those used in Interaxis.

**Schedule of work/Checkpoints**

* 29/1/2016 – Finalize the design and the underlying mathematical details to support the proposed user interactions. Work on pre-processing of the startup data if required.
* 29/2/2016 – Have the first version of the project user interface ready. This could include the rough version of the final goal. The underlying structure for UI (everything except user interaction support) should be ready by this data.
* 31/3/2016 – Should have a beta version ready. This will include the completed User interface with the necessary support for user interaction. The UI will also adjust itself to reflect the user interactions based on the underlying models.
* 15/4/2016 – Should be ready with the final deliverables. The last 15 days will be spent mainly in bug fixes and evaluating the performance of the system.

**Deliverables**

A demonstration of the working prototype.