

# ***Dissertation Abstract***

**Student Name:** Chen Shen

**Title of Degree:** Master of Science in Computer Science (Mobile and Ubiquitous Computing)

**Dissertation Title:** Supporting Narrative Guidance Tool for Coordinated Visualisations

**Supervisor Name:** Owen Conlan

**Year:** 2014

## **Abstract**

Coordinated visualizations are widely used within exploration of multi-dimensional datasets. In this project, we perform research on web based coordinated visualization, and aim at designing and developing supporting tool which is used to capture, replay the web events of coordinated visualization as well as script these events with narrative guidance. In addition, a system is designed to contain collaboration platform which is used to support data analyst to facilitate the creation of script of visualization. Concept of version control is implemented within system in order to handle multiple operations on same script. The outcome from this project is a completed system which be used to help general user easily follow and retrace the data exploration by using narrative guidance and support expert users to share exploration process.

In this project, jQuery, JavaScript, HTML and AJAX are used as main client side technologies. Combination of PHP and MySQL are used for supporting on the server side. JSON is selected as data interchange format and HTTP is used as data communication protocol.