# Work Report

## Purbita Jana

## March 16, 2016

**36th Linz Seminar on Fuzzy Set Theory:** This year the main focus of Linz seminar on fuzzy set theory was on Functional Equations and Inequalities. In this seminar I had a contributed talk. The title of my talk in this seminar was Fuzzy Topology via Fuzzy Geometric Logic with Graded Consequence, which contained a part of my doctoral thesis work. After my presentation I had discussions on my work and related areas with Prof. Lluis Godo, Prof. Ulrich Höhle and Prof. Austin Melton, which enriched my knowledge base as well as I get some new motivations towards some related areas. Prof. Austin Melton gave a proposal to collaborate with their working group (Jeffrey T. Denniston, Austin Melton, Stephen E. Rodabaugh, Sergey A. Solovyov) in near future.

**Research Visit to University of Warsaw, Poland:** The research visit to the Department of Mathematics, Informatics, and Mechanics, University of Warsaw was the second part of my visit. In this visit I delivered a talk on Fuzzy Topology via Fuzzy Geometric Logic and some Geralization using Graded Consequence. During this talk I got some valuable suggestions from Prof. Andrzej Skowron for my future research. Besides that I had some meetings with Prof. Andrzej Skowron, Piotr Wasilewski and Dr. Soma Dutta. During this visit I had few discussions with Dr. Soma Dutta on the work of Jon Barwise and Jerry Seligman in their book viz. Information Flow and a possible relationship with the work done in my doctoral thesis.