

Journal of Yanran Chen for Fall Quarter 08-09

Yanran Chen

November 24, 2008

1 Week of Oct 21, 2008

I joined the group on Oct 14, 2008 and wrote my mathematical autobiography during the last week.

2 Week of Oct 28, 2008

Last week, my course work was flooded. I've read, but unfortunately only part of the paper titled *Algorithms for Numerical Analysis in High Dimensions* by Dr. Martin. I read the Abstract, Introduction, Separated Representation and Reducing the Separation Rank part. It's a little painful to understand the mathematical part of the paper, because I do not have enough background knowledge. This week, I decide to finish reading it and hopefully I can make some progress in understanding the math part.

3 Week of Nov 14, 2008

I'm still on the paper *Algorithms for Numerical Analysis in High Dimensions*. I first reread the Abstract, Introduction, Separated Representation and Reducing the Separation Rank part that I'd read in October and made a little bit of progress in understanding the idea and the structure of the Separated Representation. Then I went on reading Alternating Least Squares, Controlling the Condition Number, Numerical Example and Iterative Algorithms. Some of the notations and the parameters are hard to understand. I need time to figure them out.

