## ANLY482 Supervisor MEETING MINUTES (28 Mar 2018)

Date:	28 Mar 2018
Time:	18:00 - 19:00
Venue:	SIS Meeting Room 4.6
Attendees:	Team: Ruiyan, Qian, Nicholas
	Supervisor: Prof Kam
Agenda:	1. Discuss about the analysis methods

S/N	Things	Remark
	Discussed/Done	
<b>S/N</b> 1	Things Discussed/Done Discuss about area analysis and point pattern analysis	<ul> <li>Remark</li> <li>Use Philippines 3 main islands, Luzon, Visayas and Mindanao, to further analyze. Edit the shape file to include the island information.</li> <li>For easy comparison, use tmap_facet (lesson 7 slides)</li> <li>Queen method: neighbors must share boundary.</li> <li>Distance based neighbors: use distance matrix (either fix distance or weighted distance)</li> <li>Cannot replace NA with 0. 0 means no borrowings but NA means missing&gt; Exclude</li> </ul>
		<ul> <li>borrowings but NA means missing&gt; Exclude those regions with NA value.</li> <li>Check the Moran statistics</li> <li>Combine the Philippines situation and Kiva and interpret the LISA results (HH, HL, LL, LH),</li> <li>When dealing with distance, it cannot be decimal degree. Transform them to Philippines' projected coordinate system&gt; use RGDAL, spTransform method to transform.</li> <li>When looking at the point pattern, heat map will give higher intensity of borrowers&gt; discuss about locations where higher intensity exits.</li> <li>By looking at the borrower itself is not</li> </ul>
		<ul> <li>exits.</li> <li>By looking at the borrower itself is not enough. Look at different sectors, generate.</li> </ul>

		map for each sector, and compare the
		<ul> <li>The limit of distance should be same for both L and G function.</li> </ul>
2	Reading list	<ul> <li>About LISA: geospatial wiki lesson 10 articles</li> <li>Point pattern: geospatial wiki lesson 9 articles</li> <li>Library: Spatial data analysis in R, applied spatial data analysis with R (to understand what is spatial polygon data frame)</li> <li>Can Describe why use R as a spatial handling tool in the research paper</li> </ul>
3	Mapping Technique	<ul> <li>tmap in r: make the map interactive</li> <li>Explore the view mode of tmap</li> <li>Can explain the use of tmap in the research paper.</li> </ul>

## Item Due (Team) / Actions

Deadline: By the end of 4 Apr

- 1. Add the island information in the shape file and Kiva data
- 2. Work out point pattern analysis and area analysis