Data - Flickr

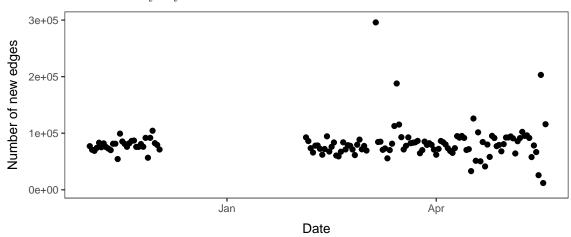
Jan Overgoor

- Source: http://socialnetworks.mpi-sws.org/data-wosn2008.html
- Paper: https://people.mpi-sws.org/~amislove/publications/Growth-WOSN.pdf

Read data

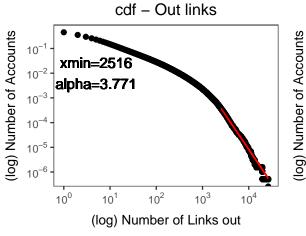
- total number of nodes: 2302925
- total number of edges: 33140018
- avg in-degree 14.3904026• avg out-degree 14.3904026

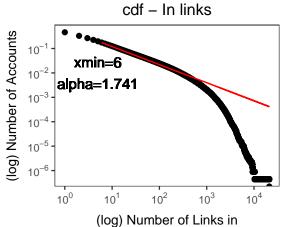
Number of connections by day



In/out degree

[1] "plfit: alpha=3.771xmin=2516" ## [1] "plfit: alpha=1.741





Jackson R

- Fitted $r^* = 1.09$ Fitted $r = \frac{r^*}{1+r^*} = 0.522$

\mathbf{Model}

## ##				
##			у	
##		(1)	(2)	(3)
## ## ##	log In-Degree	1.043*** (0.012)	0.473*** (0.017)	0.415*** (0.018)
	Reciprocal	7.878*** (0.399)	7.578*** (0.429)	7.564*** (0.437)
## ## ##	Is FoF		4.366*** (0.091)	
## ## ##	2 Hops			3.350*** (0.130)
## ## ##	3 Hops			-0.479*** (0.114)
	4 Hops			-2.967*** (0.182)
## ##	5 Hops			-4.101*** (0.325)
## ## ## ##	6+ Hops			-6.974*** (1.134)
	Observations Log Likelihood	5,000 -5,483.142	5,000 -3,501.051	5,000 -3,039.917
##	Note: *p<0.1; **p<0.05; ***p<0.01			
##	[1] "Train accuracy:"			
##	[1] 0.7021700 0.7987635 0.7902305			
##	[1] "Test accuracy:"			
##	[1] 0.7195609 0.8053892 0.8039604			