

Big Data: Homework 4

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1 Network Connectivity Transformation

Network connectivity (which we are calling **degree**) is measured by the number of edges for each node in a network. In this context, **degree** measures the number of relationships that a household in our population has. We observe in Figure 1 that **degree** is distributed logarithmically.

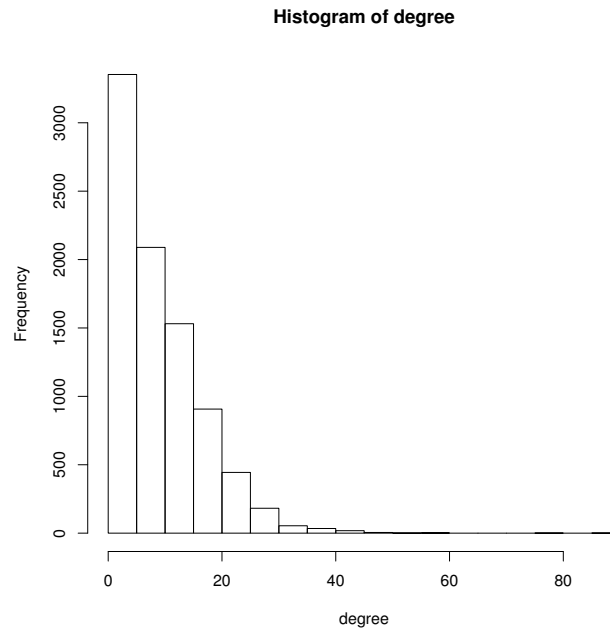


Figure 1: Distribution of **degree**

- 2 Predicting Network Connectivity from Controls
- 3 Effect of Network Connectivity on Loan Propensity
- 4 Naive Estimation of Loan Propensity
- 5 Bootstrapping Uncertainty
- 6 Experimental Design