



Hierarchical Structure in Social Networks

Cynthia Cook^{1c}, Matthew J. Denny^d, Mitchell Goist¹, Timmy Huynh¹

^aDepartment of Statistics cmc496@psu.edu

^bDepartment of Political Science, mzd5530@psu.edu

^cDepartment of Political Science mlg307@psu.edu

^dDepartment of Sociology and Criminology, tnh133@psu.edu

Abstract

Keywords: Hierarchy, Network, Power

1. Introduction

2. Measuring Hierarchy

2.1. Measuring Hierarchy in Groups

2.2. Measuring Hierarchy in Networks

3. A Model of Network Hierarchy

4. Data

5. Analysis

6. Conclusions

¹ Authors are listed in alphabetical order but all contributed equally to this publication.