Contents

1	Introduction 5				
	1.1	Workshop materials	3		
	1.2	Workshop setup	7		
	1.3	Data	3		
2	R basics 11				
	2.1	Overview	L		
	2.2	Starting R and loading packages	L		
	2.3	Objects in R	5		
	2.4	Arithmetic, statistical, and relational operations	L		
	2.5	Indexing	5		
	2.6	The tidyverse grammar 35	}		
3	Rep	oresenting and visualizing ego-networks 39)		
	3.1	Overview)		
	3.2	Ego-level vs alter-level data)		
	3.3	Networks in R	3		
	3.4	Ego-networks as igraph objects	1		
4	Ego	-network composition 57	7		
	4.1	Overview	7		
	4.2	Measures of ego-network composition	7		
	4.3	Analyzing the composition of many ego-networks 65	ó		
5	Ego	o-network structure 73	3		
	5.1	Overview	3		
	5.2	Measures of ego-network structure	3		
	5.3	R lists)		
	5.4	Analyzing the structure of many ego-networks 85	ó		
6	Multilevel modeling of ego-network data				
	6.1	Overview	L		
	6.2	Prepare the data	L		
	6.3	Random intercept models	3		

4 CONTENTS

	6.4 6.5 6.6	Random slope models
7	The	egor package 107
	7.1	Importing ego-network data
	7.2	Analyzing and visualizing ego-network data
8	Sup	plementary topics 119
	8.1	More R programming topics
	8.2	Importing ego-network data with igraph and tidyverse 129
	8.3	More operations with igraph
	8.4	The statnet suite of packages
	8.5	Illustrative example: personal networks of Sri Lankan immigrants
		in Italy