

Contents

Preface: Scope of this Work	3
List of Tables	12
List of Figures	14
1 Introduction	15
1.1 Concepts: 'Shadow Economy' and 'Undeclared Work'	16
1.2 Measurement of Undeclared Work: Macro-level Approaches	19
1.3 Measurement of Undeclared Work: Individual-level Approaches	23
1.3.1 The Response Process and Sensitive Questions	25
1.3.2 Measurement of Undeclared Work: Selected German Surveys	28
1.3.3 The Randomized Response Technique	30
1.3.3.1 The General Idea	30
1.3.3.2 Estimators	32
1.3.3.3 Limitations	34
1.3.4 The Item Count Technique	35
1.3.4.1 The General Idea	35
1.3.4.2 Estimators	37
1.3.4.3 Limitations	39
1.4 Summary of Research Gaps and Research Questions	39
2 Measuring and Explaining Undeclared Work in Germany	43
2.1 Study Details: The Experiments	44
2.1.1 The RRT Study	45
2.1.1.1 Sampling and Data Collection	45
2.1.1.2 Experimental Design	46
2.1.1.3 Questionnaire	47
2.1.1.3.1 General Information	47
2.1.1.3.2 The RRT Implementation	48
2.1.2 The ICT Study	49
2.1.2.1 Sampling and Data Collection	49
2.1.2.2 Experimental Design & ICT Implementation	50
2.1.2.3 Questionnaire: General Information	51
2.1.3 Sample Composition	51
2.1.4 Undeclared Work: The Dependent Variables	54

2.2	Empirical Results	55
2.2.1	Comparing Randomized Response, Item Count and Direct Questioning	55
2.2.2	Who Engages in Undeclared Work?.....	59
2.2.2.1	Theoretical Foundations and Hypotheses	59
2.2.2.2	Empirical Evidence	64
2.3	Discussion and Conclusion	70
3	Item Sum: A Novel Technique for Asking Continuous Sensitive Questions	73
3.1	The Item Sum Technique	74
3.2	Experimental Design	75
3.3	Empirical Results	78
3.3.1	Comparing Item Sum and Direct Questioning	78
3.3.2	Does it Work for Everybody? Differential Item Sum Effects	80
3.4	Discussion and Conclusion	83
4	Validating Sensitive Questions: A Comparison of Survey and Register Data	89
4.1	Background	91
4.2	Data and Methods	93
4.2.1	The Survey Data	93
4.2.1.1	Sampling and Data Collection	93
4.2.1.2	Measurement of the Dependent Variable	93
4.2.1.3	Independent Variables and Operationalizations	94
4.2.2	Register Data	97
4.2.3	The Linked Data	97
4.3	Statistical Analyses	98
4.4	Empirical Results	100
4.4.1	Reduction of Response Bias by Means of RRT?	101
4.4.2	Is Response Bias Subgroup Specific?	103
4.5	Discussion and Conclusion	107
5	Discussion and Conclusion	111
5.1	Contribution	112
5.2	Limitations	114
5.3	Implications for Future Research	117

A	Appendix to Chapter 2	119
A.1	RRT Instructions	119
A.2	IST Long-List Instructions	120
A.3	ICT Instructions and ICT Lists	121
A.4	Prevalence Estimates Undeclared Work	122
A.5	Overview of Items and Operationalizations (RRT study)	123
A.6	Logistic Regression Models Analyzing Undeclared Work Based on Listwise Deletion	126
A.7	Logistic Regression Models Analyzing Undeclared Work by Experimental Conditions	128
B	Appendix to Chapter 3	130
B.1	Regression Estimates for IST	130
B.2	IST Results Displayed as Regression Output	133
C	Appendix to Chapter 4	134
C.1	Validation Studies	134
C.2	Social Assistance and Entitlements in Germany	135
	Bibliography	137
	Abstract	153
	Zusammenfassung	155