

Table of contents

List of figures	XI
List of tables	XIII
1 Introduction	1
2 Effect of ad characteristics and targeting options on display ad effectiveness.....	7
2.1 Introduction	7
2.2 Literature review	9
2.3 Conceptual model and modeling approach.....	15
2.3.1 Initial state probabilities.....	17
2.3.2 Transition matrix.....	17
2.3.3 Probability to react.....	19
2.3.4 Likelihood function.....	20
2.3.5 Endogeneity	21
2.3.6 Recovering state membership.....	23
2.3.7 Model estimation	23
2.4 Data....	29
2.5 Results	32
2.5.1 Number of states	32
2.5.2 Parameter estimates	32
2.5.3 Comparison to other models.....	37
2.5.4 Scenario analyses.....	37
2.6 Summary	43
2.6.1 General discussion	43
2.6.2 Managerial implications	44
2.6.3 Limitations and further research.....	44
3 User device and ad response: The moderating role of ad position.....	47
3.1 Introduction	47
3.2 Differences between the mobile and traditional online channel.....	48
3.2.1 Difference in usage situation	49

3.2.2	Difference in technological features	49
3.2.3	Difference in consumers' reactions to advertising	50
3.3	Conceptual framework and hypotheses	52
3.4	Study design	55
3.4.1	Data collection	58
3.4.2	Data description	58
3.4.3	Research method	61
3.5	Results	64
3.6	Robustness check	68
3.7	Model evaluation	71
3.8	Discussion	73
4	Value of user generated content and social shopping tools	75
4.1	Introduction	75
4.2	Conceptual background	77
4.2.1	Literature review	77
4.2.2	Hypotheses	79
4.3	Data	82
4.4	Research method – Propensity score matching	83
4.4.1	Average treatment effect and assumptions	83
4.4.2	Controlling for selection bias	84
4.4.3	Estimating the treatment effect	91
4.5	Results	91
4.5.1	Characteristics of users of user generated content	91
4.5.2	Effects of user generated content on customer revenue and share of product returns	94
4.5.3	Heterogeneity	95
4.5.4	Robustness check – Sensitivity analysis	97
4.6	Discussion	98
4.6.1	Summary and managerial implications	98
4.6.2	Limitations and future research	100
5	General discussion	103
5.1	Study 1: Effect of ad characteristics and targeting options on display ad effectiveness taking the unobservable interest into account	104

5.2 Study 2: User device and ad response: The moderating role of ad position	105
5.3 Study 3: Value of user generated content and social shopping tools .	106
5.4 Outlook to the future	107
Appendix A: Simulation study.....	109
Appendix B: Factor analysis	115
References	121