

Current Topics for Master Theses at the Department of Sales & Services Marketing

Advisor: Fabian Schedel, M. Sc.

Topic	Alone vs. Together: Social Presence Effects on Headline Believability and Truth Discernment
Abstract	This project proposes to examine how social settings (being alone versus in groups) influence the believability of news headlines and truth discernment. It will adapt and apply relevant theories (e.g., Social Influence Theory, perceived social presence, dual-process accounts) to headline evaluation, using pre-tested stimuli with believability ratings and true/false judgments to test clear, theory-driven hypotheses.
Topic	Social Proof Throttling: When Like Counts Distort Credibility
Abstract	This study examines how variations in the visibility and configuration of engagement indicators within digital interfaces influence users' evaluation of brief informational content. Employing a between-subjects design, participants assess pre-validated, neutral statements for perceived plausibility and factual accuracy. The study tests whether prominently displayed interaction metrics amplify perceived social context and, in turn, elevate credibility judgments while diminishing accuracy discrimination, compared with conditions where such cues are concealed or de-emphasized. The results are expected to clarify under which interface conditions social endorsement signals bias evaluative processing and to inform evidence-based design choices for accuracy-relevant information environments.
Topic	Accountability Cues Reduce Credulity: Real-Name and Provenance Badges Improve Truth Discernment
Abstract	This project investigates how cues related to the visibility and traceability of information sources affect individuals' evaluation of short informational statements. Drawing on theoretical perspectives on accountability, cue utilization, and reflective versus heuristic processing, the study examines

	whether contextual markers indicating author identifiability and content origin enhance discernment between accurate and inaccurate information. Using systematically varied textual stimuli, participants will provide believability and veracity judgments, enabling a theory-based assessment of how identifiable context features influence evaluative precision in information processing.
Topic	Contextual Dynamics in Information Evaluation: How Situational Factors Shape Cognitive Judgments of News Content
Abstract	This project explores how situational contexts influence individuals' evaluation of short informational statements resembling everyday news content. Building on established psychological and communication frameworks concerning social contexts, cognitive processing, and subjective assessment, the study examines how variations in interpersonal environment affect perceived credibility and accuracy judgments. Using pre-tested textual stimuli, participants will provide evaluations along key perceptual dimensions, allowing for a theory-based analysis of contextual effects on evaluative reasoning.
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Advisor: Vladislav Kucher, M. Sc.

Topic	Enhanced Market Analytics: Harnessing Network Analysis in Graph Theory
Abstract	Graph theory is a branch of mathematics examining the structures and modeling the relationships between objects. Within the scope of this study, graph analysis can be thought of as (1) a method of predictors extraction that relies on graph theory and (2) a powerful tool for discovering valuable information about relationships in complex data, which present significant business opportunities. This study will leverage the power of graph analysis to infer and optimize different strategies in the domain of marketing.
Topic	Driving Marketing Success: The Integral Role of Recommender Systems
Abstract	This thesis explores the comprehensive application of recommender system (RS) algorithms across various facets of marketing. The focus is on showcasing their potential to revolutionize marketing strategies and operations. By integrating RS algorithms into marketing practices, businesses can achieve goals such as personalized customer experiences, optimized product pricing, and efficient inventory management. The study highlights the role of RS in enhancing customer engagement, increasing sales, and improving operational efficiencies. It also examines the use of RS in market segmentation and predictive analytics, enabling marketers to anticipate customer needs and tailor their strategies accordingly. Overall, this study establishes the indispensable value of recommender systems as a tool for achieving marketing excellence and driving business growth in an increasingly competitive market environment.
Topic	Same but Different: Digital Twins in Market Research
Abstract	Marketers have long relied on customer surveys as a primary method for understanding consumer preferences. Insights derived from self-reported data inform the development of marketing measures, policies and strategies that shape both academic research and corporate decision-making. Recent advances in the field of generative artificial intelligence (e.g., large language models) open a new frontier in market research – the creation and deployment of <i>digital twins</i> (DTs) of real entities as a promising tool of marketing analytics. This thesis aims to (1) examine the general phenomena, (2) explore DTs properties and (3) deploy them in real world marketing scenarios.

Topic	Inference, Explainability, Causality and Generalization in Machine Learning: Enhancing Algorithmic Understanding and Efficiency
Abstract	The traditional data mining process starts with understanding the business context, followed by data collection, model development, and deployment. While causality can be part of this process, it is often overshadowed by the focus on improving predictive accuracy. However, recent advancements in both algorithmic techniques—particularly in causal inference—and the field of explainable artificial intelligence (XAI) have equipped 21st-century marketing researchers with tools that not only predict outcomes but also explain the performance of complex machine learning models. In this study, we will develop and evaluate various machine learning models to address key marketing research questions, with an emphasis on interpreting model outputs, deriving and validating causal relationships, and ensuring robustness and generalizability.
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