

The Effects of Influencer Advertising Disclosure Regulations: Evidence from Instagram

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This Project

- Research Question: **What are the effects of mandatory advertising disclosure regulations?**
 - On amount of advertising/sponsored content and user engagement in online platforms
 - An open empirical question with conflicting theoretical predictions (Mitchell 2020)
- We collect data on 100 most popular *local* Instagram influencers from Germany and Spain
 - Germany had mandatory disclosure regulations in late 2016
 - Regulation focused on including words that indicate sponsored posts (“#ad,” “#werbung”)
- For each influencer, observe full history of posts (# likes, # comments, # followers, post text)
- Difference-in-differences identification strategy, controlling for influencer and country characteristics

Defining Sponsored Posts

- Key empirical challenge is identifying **sponsored** posts
 - We know what **sponsored** and **disclosed** posts look like (#ad, #werbung)
 - Less sure about what **sponsored** and **non-disclosed** posts look like
- Two ways of uncovering these:
 1. Manual definition using keywords
 - i.e., "code," links to websites, brand refs, "buy this!" etc.
 - Drawbacks - have to pick keywords ourselves
 2. Supervised ML definition
 - Train an algorithm (Naive Bayes) to look for words associated with disclosure
 - Training data - Germany after regulation
 - Project on pre-regulation Germany and Spain
 - Drawbacks - overfitting, imperfect disclosure and translation
- Comparison: Both catch around 70% of disclosed posts but ML is more "conservative"

Main Results

- DiD estimates show that sponsored content increases in Germany after regulation
 - Sponsored post share increases by 7% (relative to a 19% baseline)
- Disclosure of sponsored content also increases but is far from perfect
- The number of followers per influencer falls in Germany
- Engagement with posts in Germany falls, suggesting growing dislike of non-disclosed sponsored content

