Persuasion Under Information Overload

Reputation Signals

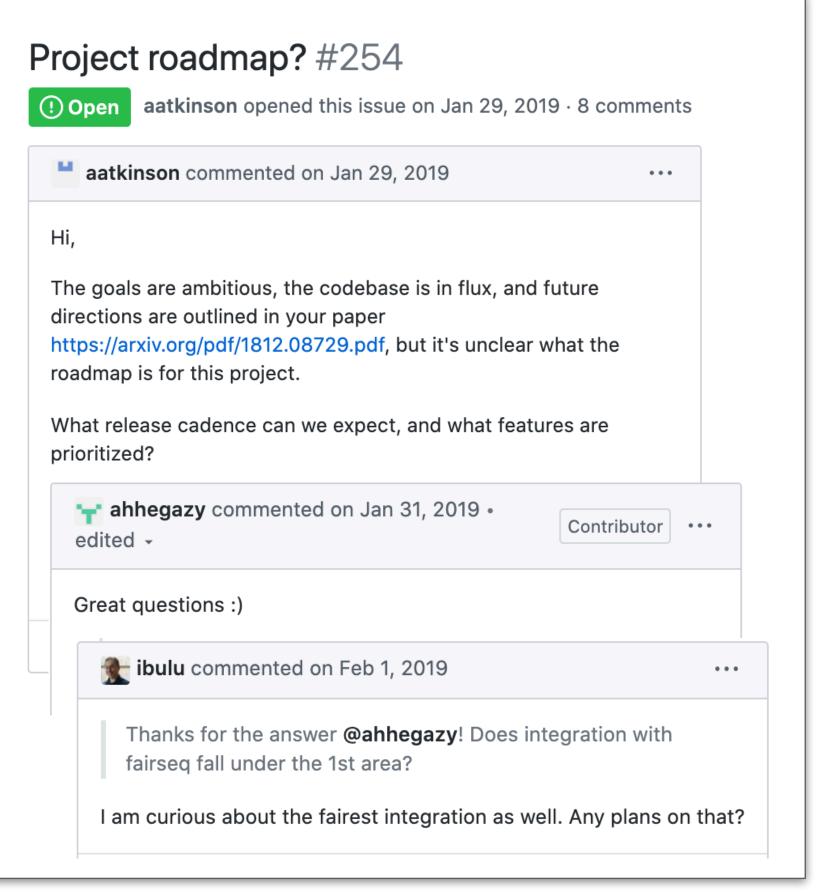
Emaad Manzoor

George H. Chen

Dokyun Lee

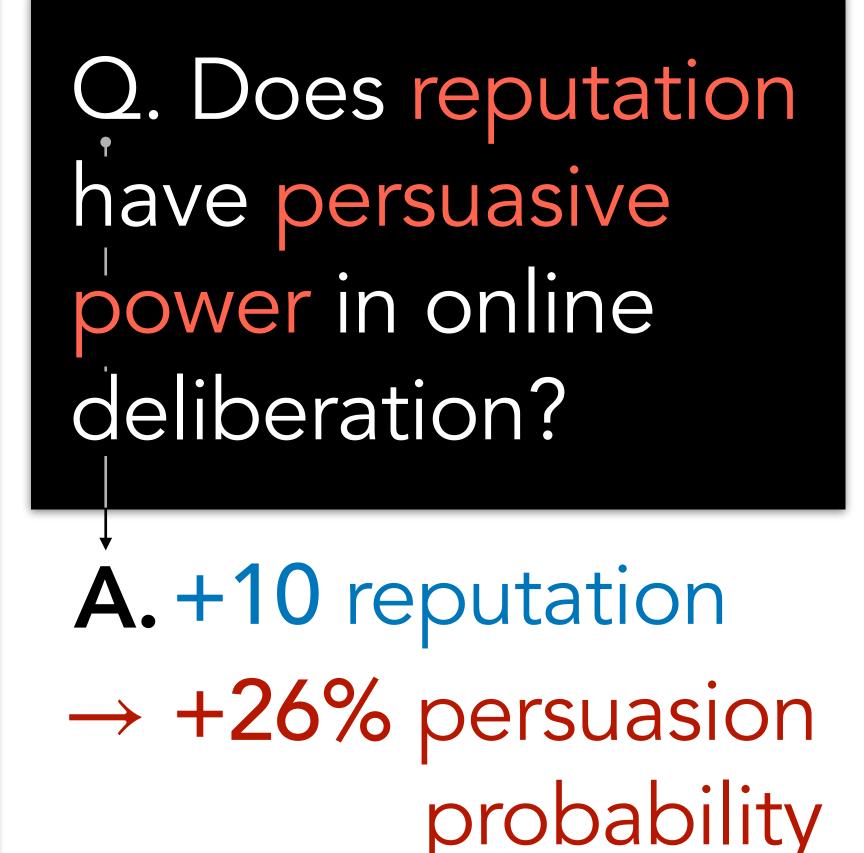
Michael D. Smith

Online Deliberation



Overview Repositories Projects Stars Follower Pinned microsoft/ds Baseline implementation for Code to generate t corpus for the DS7 **DSTC8** User Response Prediction Multi-Domain End-Fast Adaptation Ta ● Python 🏠 20 **Adam Atkinson** aatkinson microsoft/GRTr Generative Retrieval Transformer **Follow** ● Python ☆ 14 ♀ 3 Machine Learning Software Developer. Applied research and research engineering in Deep Learning and NLP. 81 contributions in the last year (ii) @microsoft , @Maluuba https://www.microsoft.com/e...

Research Question



(reference cues theory)

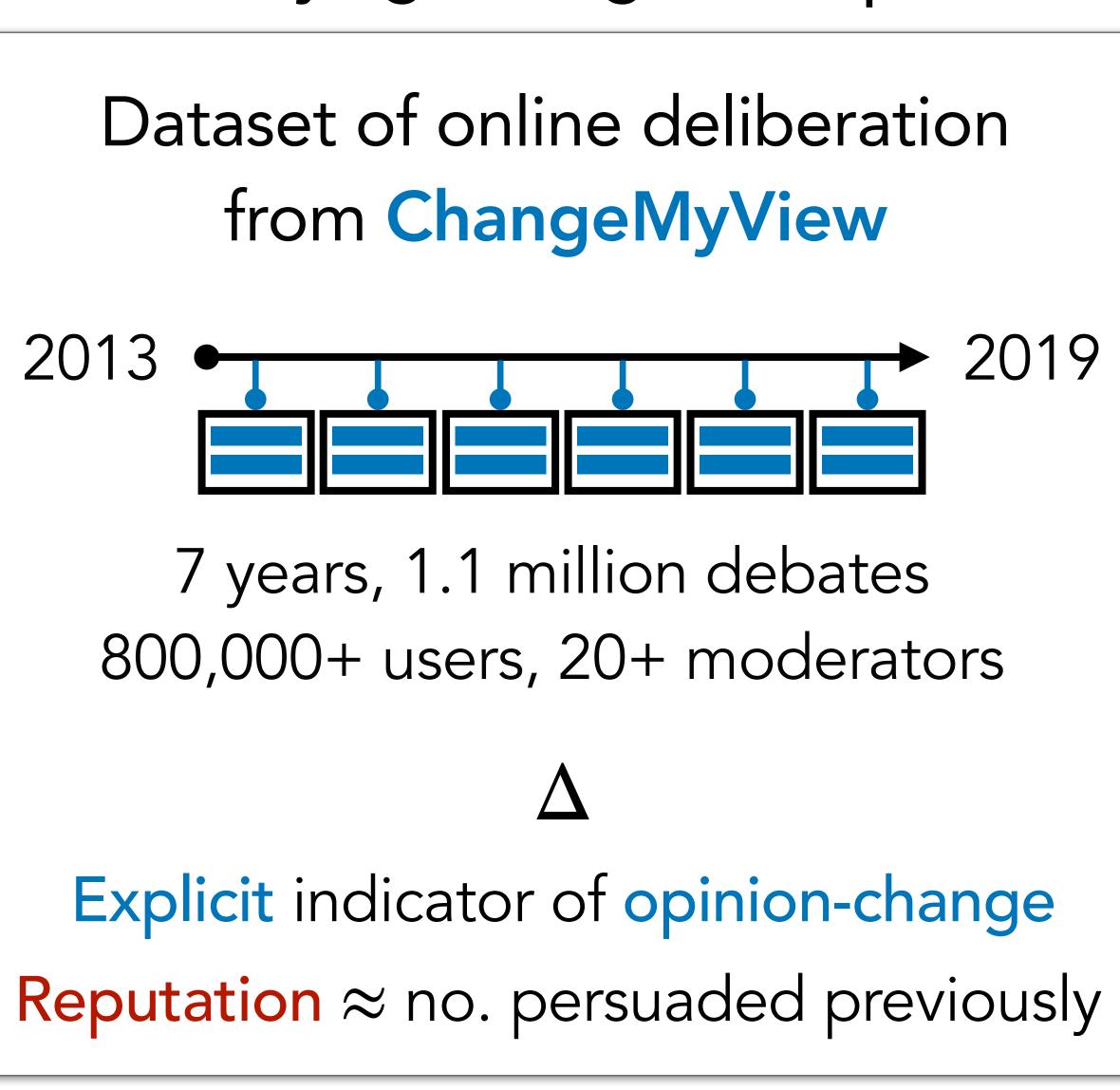
(used as heuristics)

Block or report user

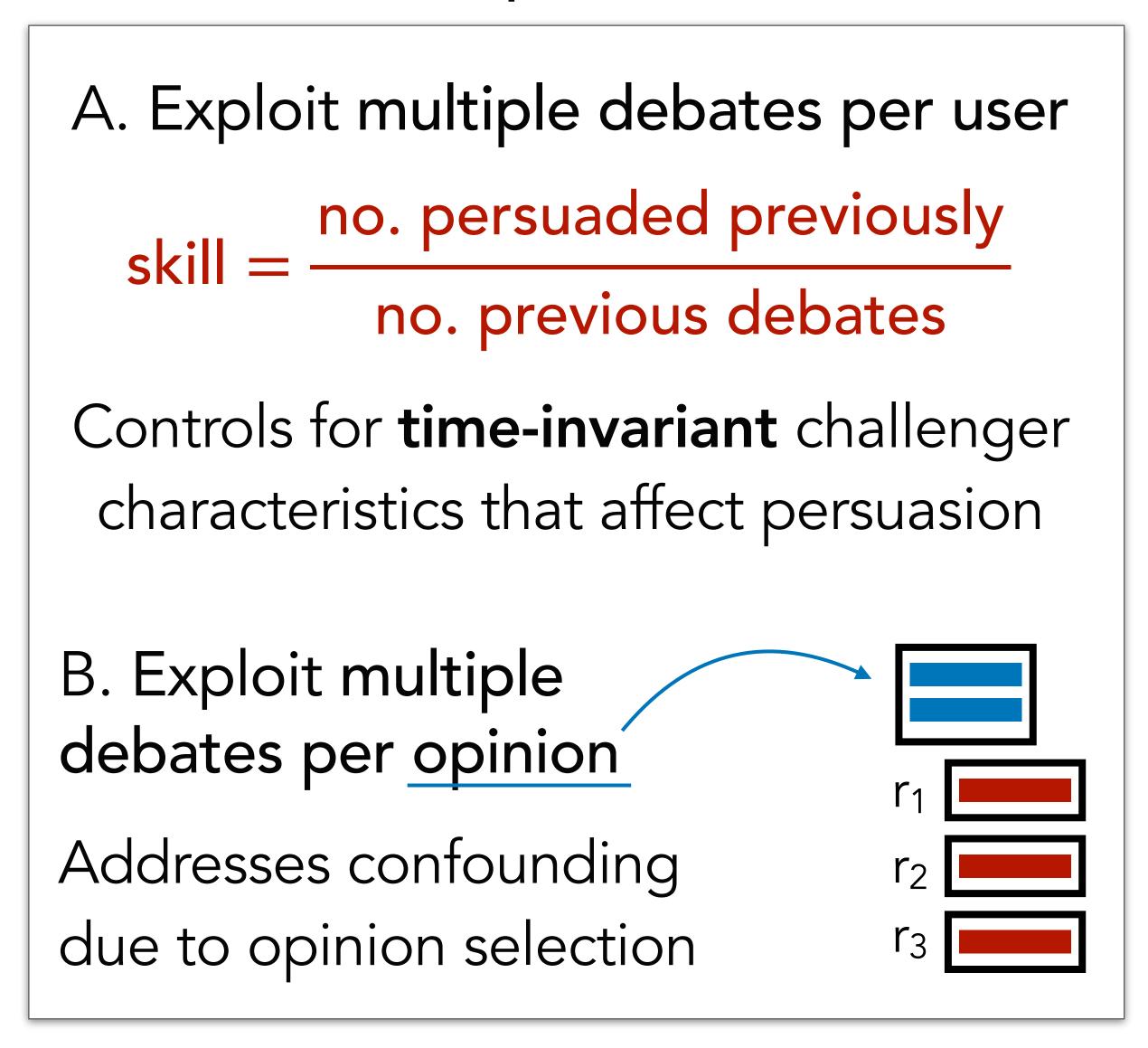
Organizations

Empirical Challenges

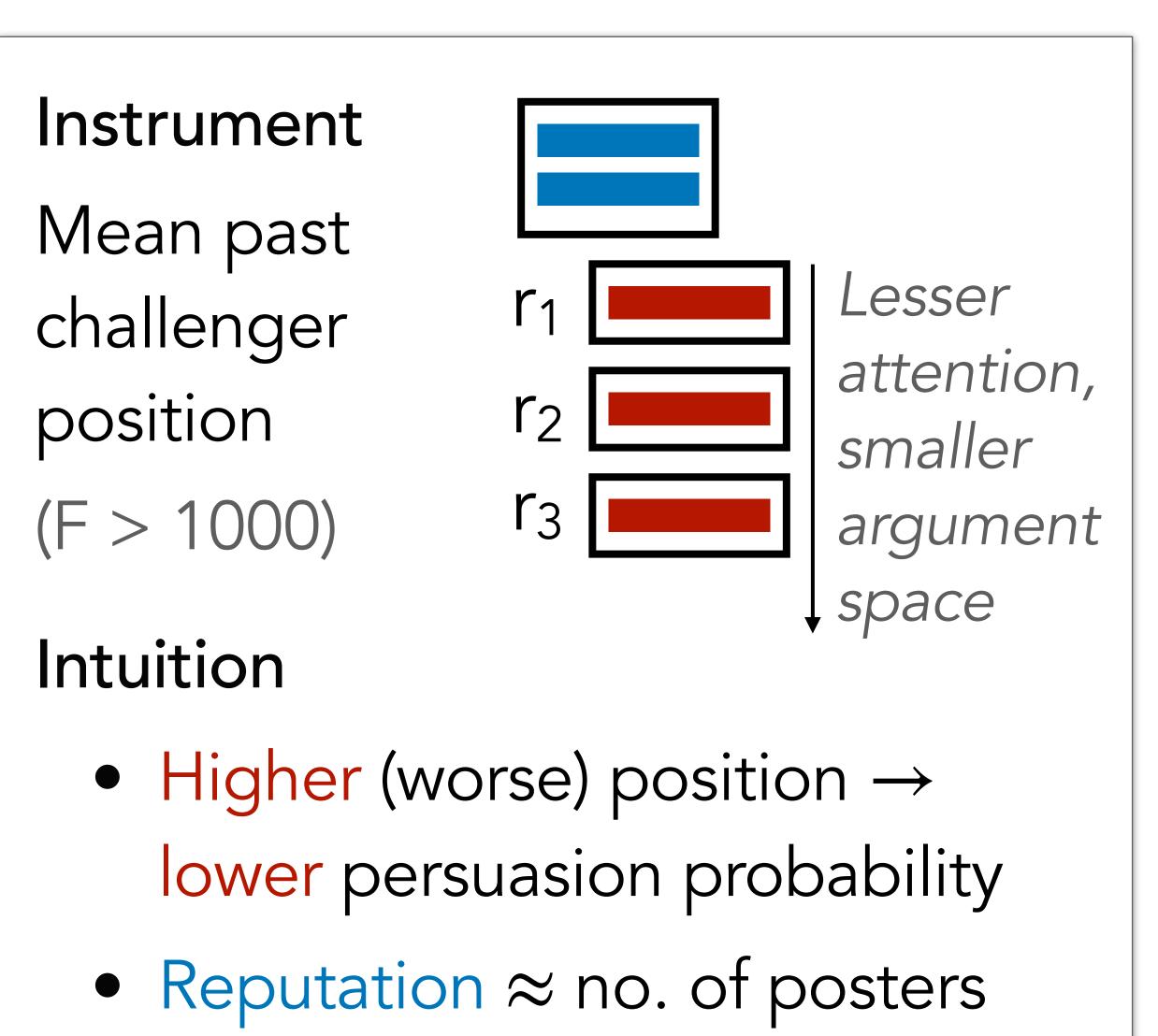
I. Identifying Changes in Opinions



II. Skill & Opinion Selection



III. Unobserved Confounders



IV. Controlling for Text

Why? Confounders likely to affect the debate outcome through the text of the challenger's response

How? Partially-linear IV model with deep (ReLU) neural networks to model text — estimated via double machine-learning

Consistent estimates + valid inference — in contrast with NLP dimensionality reduction

Main Results

Reputation is persuasive

persuaded previously

+10 reputation units \rightarrow +26% persuasion rate increase over the platform average persuasion rate ($\approx 3.5\%$)

Heterogeneity patterns consistent with "reference cues" persuasion theory

