

Broadcasters and Hidden Influentials in Online Protest Diffusion

Joint work with Javier Borge-Holthoefer and Yamir Moreno (BIFI-University of Zaragoza)

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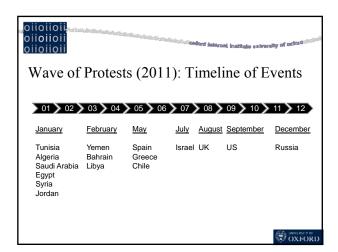
Person of the Year 2011: The Protester

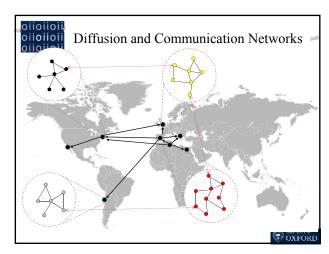


Dec 26, 2011

- The word 'protest' appears in newspapers exponentially more in 2011 than ever before
- Global tipping point for frustration
- SNSs did not cause the movements, but kept them alive
- Technology helped spread "the virus of protest"

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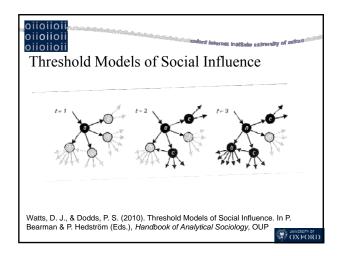
oii**oii**oii oiioiioii Models of Diffusion Innovation, but also other examples with network externalities and information cascades: • peer-to-peer or media driven? (Coleman et al.1957 vs van den Bulte et al. 2001) · contagion, social influence, learning?

2002; Watts and Dodds 2007)

(Young 2009)

• how do networks shape the process? (Watts **EVERETT M.ROGERS** OXFORD oiioiioii oii**oii**oii oiioiioii Networks and Collective Action Some historical examples: • insurgency in Paris commune in 1871 (Gould 1991) • the 60s civil right struggles in the US (McAdam 1986) • demonstrations in East Germany (Opp and Gern 1993; Lohman 1994) OXFORD

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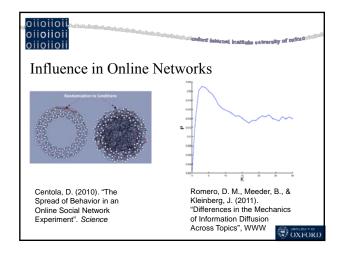




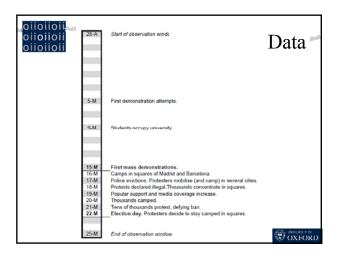
Threshold Models – Main Findings

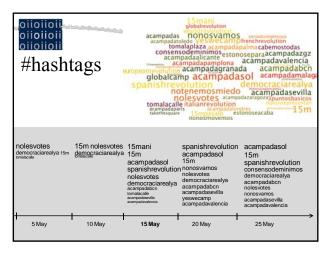
- the shape of threshold distribution determines the global reach of cascades;
- individual thresholds interact with the size of local networks;
- critical mass depends on activating large number of low threshold actors that are well connected in the overall structure;
- exposure to multiple sources can be more important than multiple exposures from the same source (complex contagion)

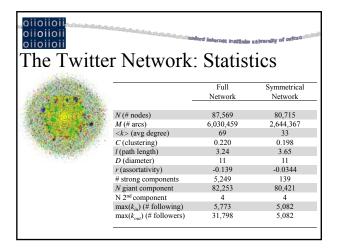
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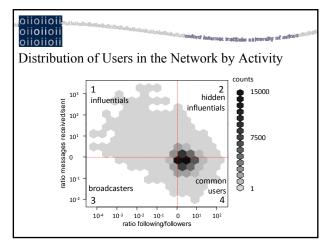


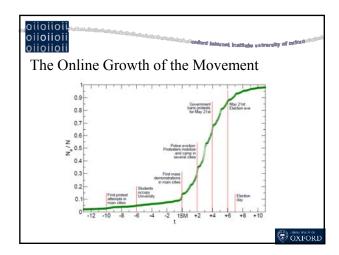


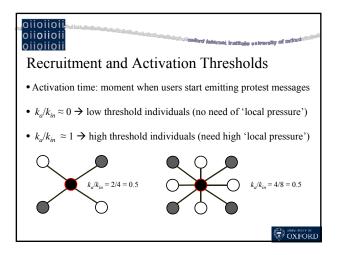


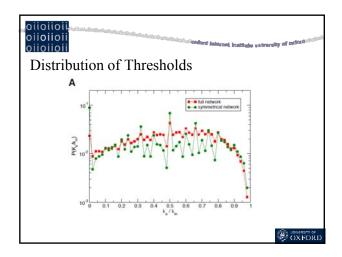


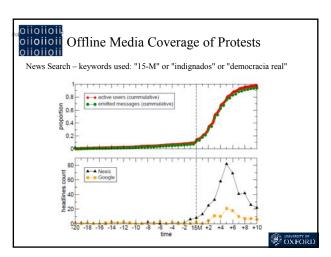


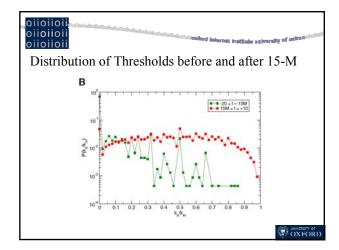


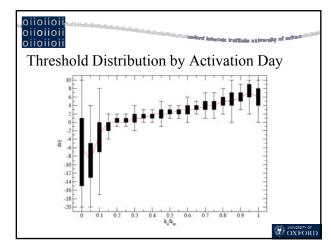


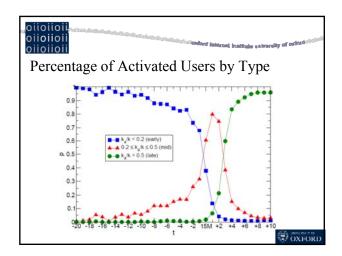


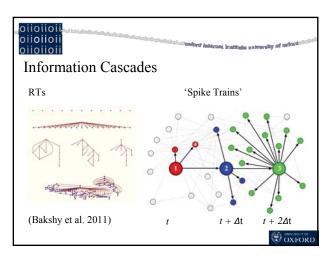


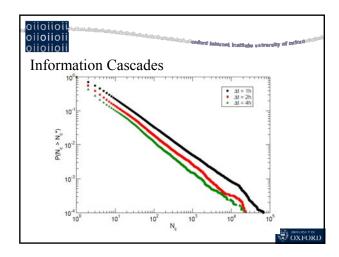


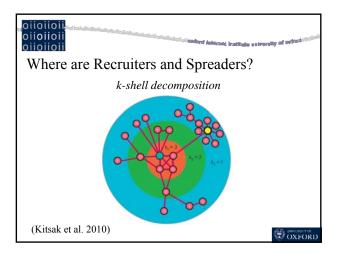




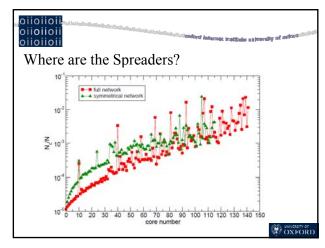


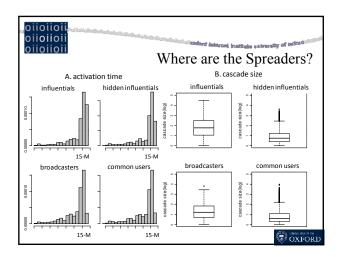


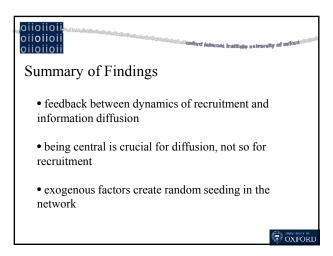












Discussion

To main limitations:

• we do not control for homophily

• we do not control for exposure to offline media

so we might be overestimating influence

