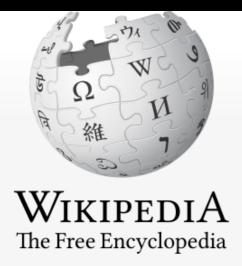
Characterizing Information Diets of Social Media Users

Juhi Kulshrestha, Muhammad Bilal Zafar, Lisette Espin Noboa, Krishna P. Gummadi, Saptarshi Ghosh

Max Planck Institute for Software Systems
Germany





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Media studies

From Wikipedia, the free encyclopedia

Media studies is a discipline and field of study that deals with the content, history and effects of various media; in particular, the mass media. Media studies may draw on traditions from both the social sciences and the humanities, but mostly from its core disciplines of mass communication, communication, communication sciences and communication studies. Researchers may also develop and employ theories and

Media studies

What information is being produced?

What are people consuming?

Is the coverage biased?

How are these media orgs influencing them?

Media studies

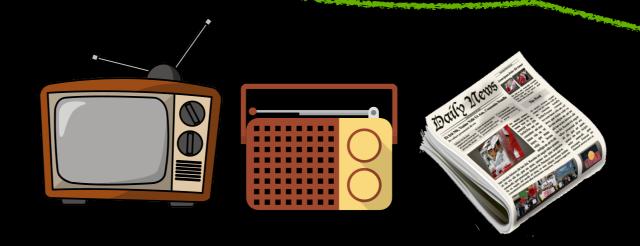
What information is being produced?

What are people consuming?

Is the coverage biased?

How are these channels influencing them?

Media studies



Nearly half of the US internet users rely on Facebook to get political news rather than the local television.

Pew Research Center

Online social media







Millions of users are producers & consumers





Millions of users are producers & consumers

Team of editors

Users post what they like





Millions of users are producers & consumers

Team of editors

Users post what they like

Broadcast channels: Everyone receives the same information Personalized channels of information





Millions of users are producers & consumers

Team of editors

Users post what they like

Broadcast channels: Everyone receives the same information Personalized channels of information

Personalized recommendations

Composition of information produced or consumed

Topical

- Topical
- Perspectives / Opinions

- Topical
- Perspectives / Opinions
- Source Diversity

- Topical
- Perspectives / Opinions
- Source Diversity

Inferring Information Diets



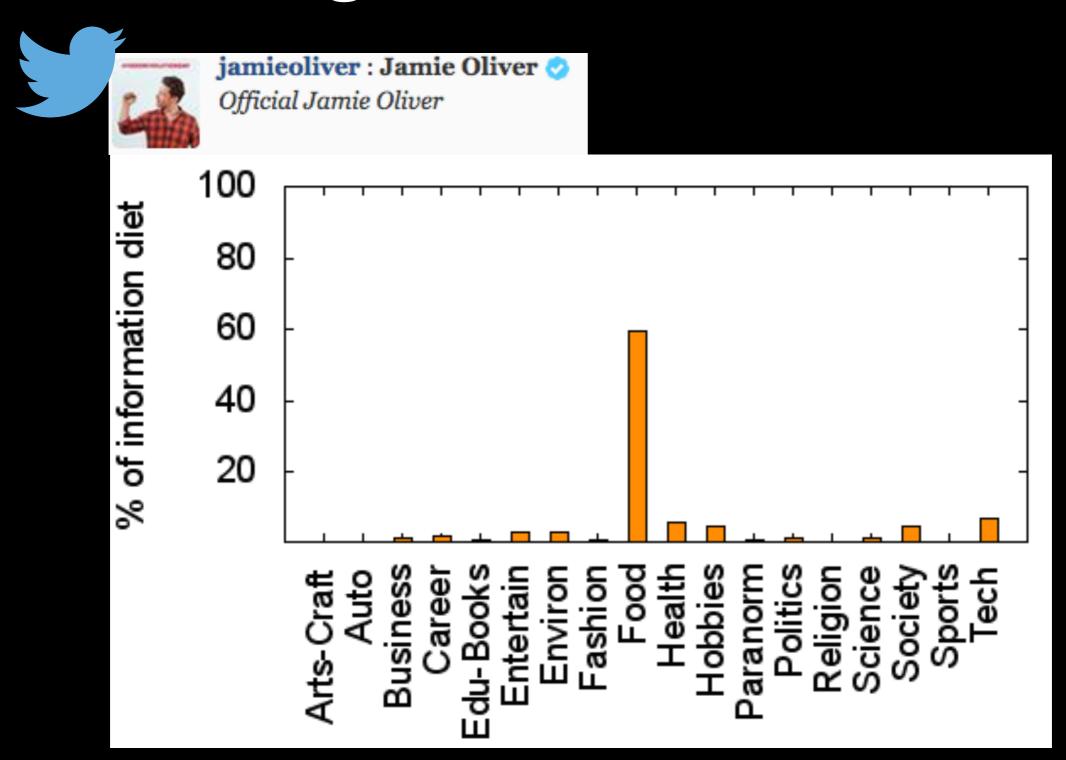
Arts-Craft
Auto
Business
Career
Career
Career
Fath Books
Entertain
Fashion
Fas

Inferring Information Diets



Arts-Craft
Auto
Business
Career
Career
Career
For Books
Entertain
Frashion
Fashion
Fashion
Fashion
Fashion
Fashion
Food
Aralth
Politics
Science
Society
Sports
Tech

Inferring Information Diets



What's in the paper?



Production



Consumption



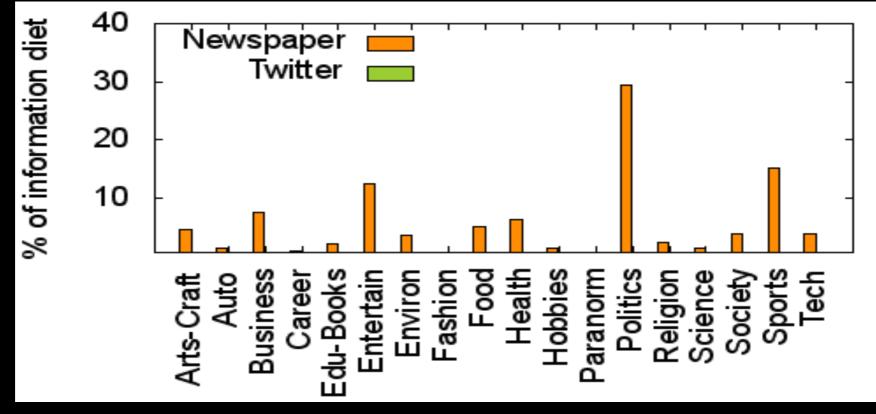
Recommendations

Production - Main Questions

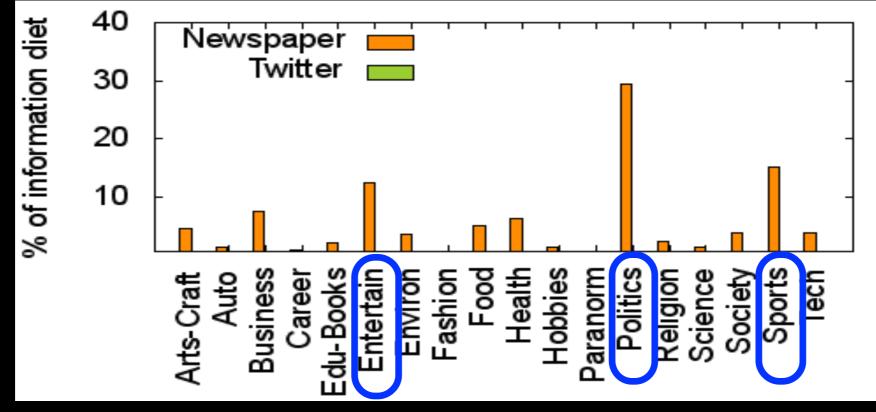
 Do news organizations like NYTimes produce the same diet on social media as they do on broadcast mass media?









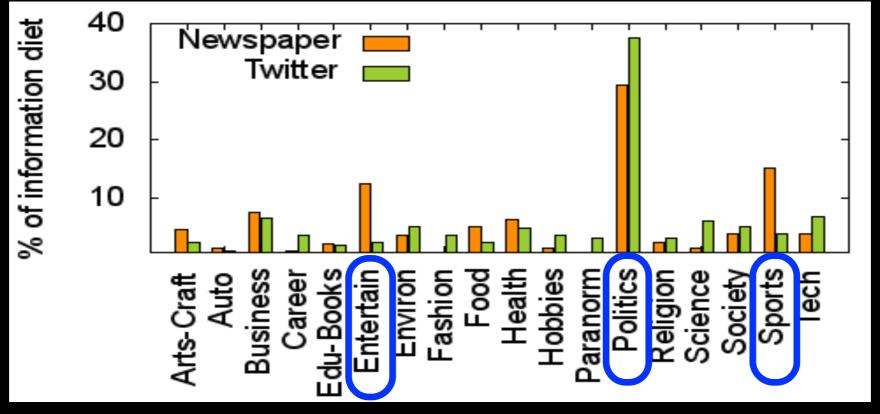
















NYTSports - 67% nytimesbooks - 60%



























Multiple topic specific Twitter accounts

@juhi153 Juhi Kulshrestha





Unbundlingof information



























Multiple topic specific Twitter accounts

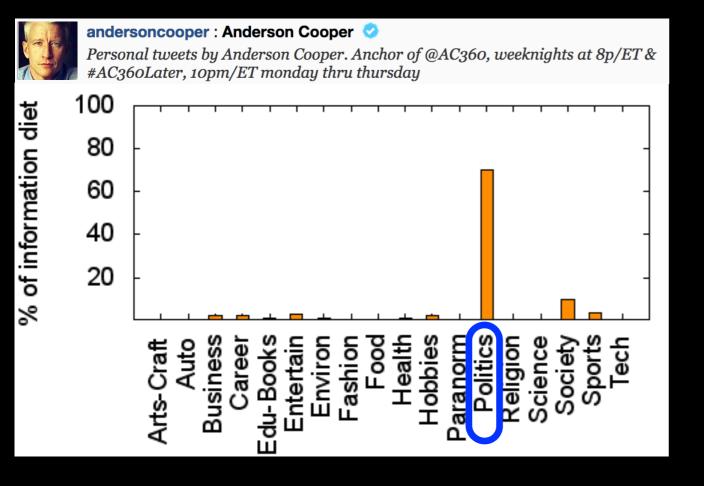
@juhi153 Juhi Kulshrestha

Production - Main Questions

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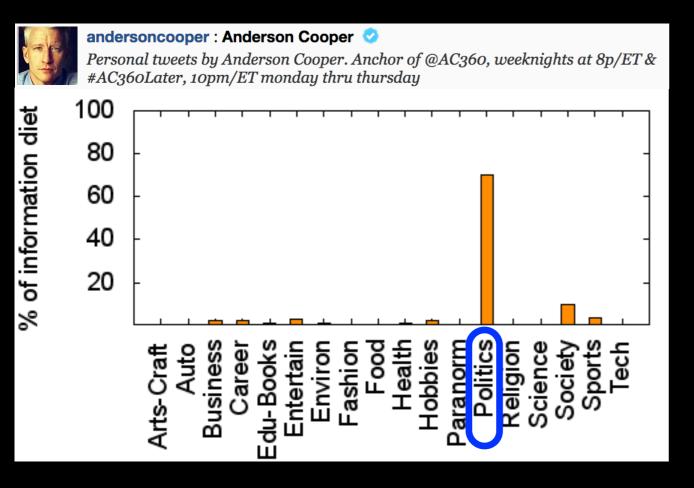
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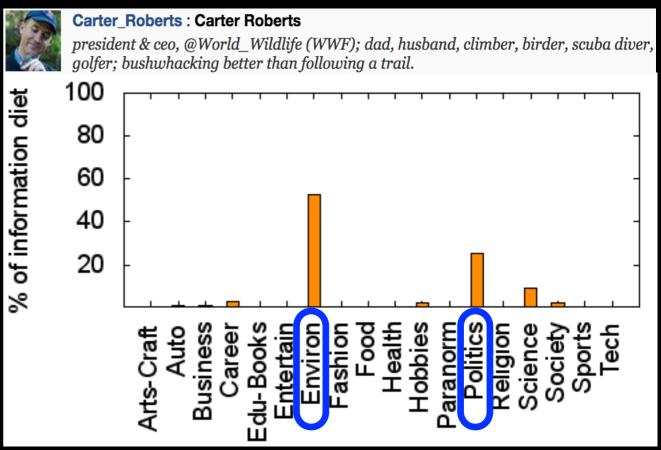
Diets of Popular Twitter users



Anderson Cooper

Diets of Popular Twitter users





Anderson Cooper

Carter Roberts

Production - Takeaways

- Do news organizations like NYTimes produce the same diet on social media as they do on broadcast mass media?
 - Multiple accounts on Twitter Unbundling of information
 - Very specialized production by each account
- What do the popular users on social media produce? Are they specialists or generalists?
 - Focus on one or two topics specialized production

What's in the paper?



Production



Consumption



Recommendations

 Do the social media users stitch together a balanced diet for themselves?

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Recommendations

 Do recommendations trap you in filter bubbles or do they add diversity?

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Recommendations

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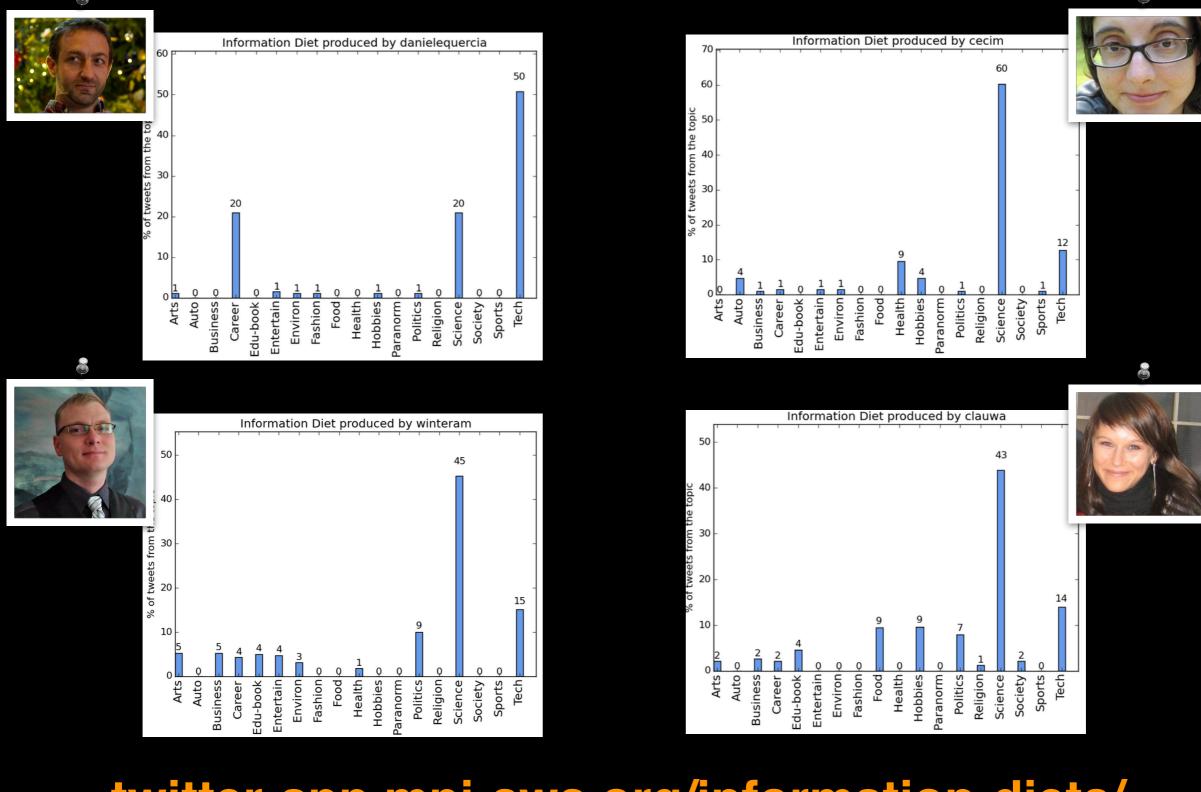
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Recommendations

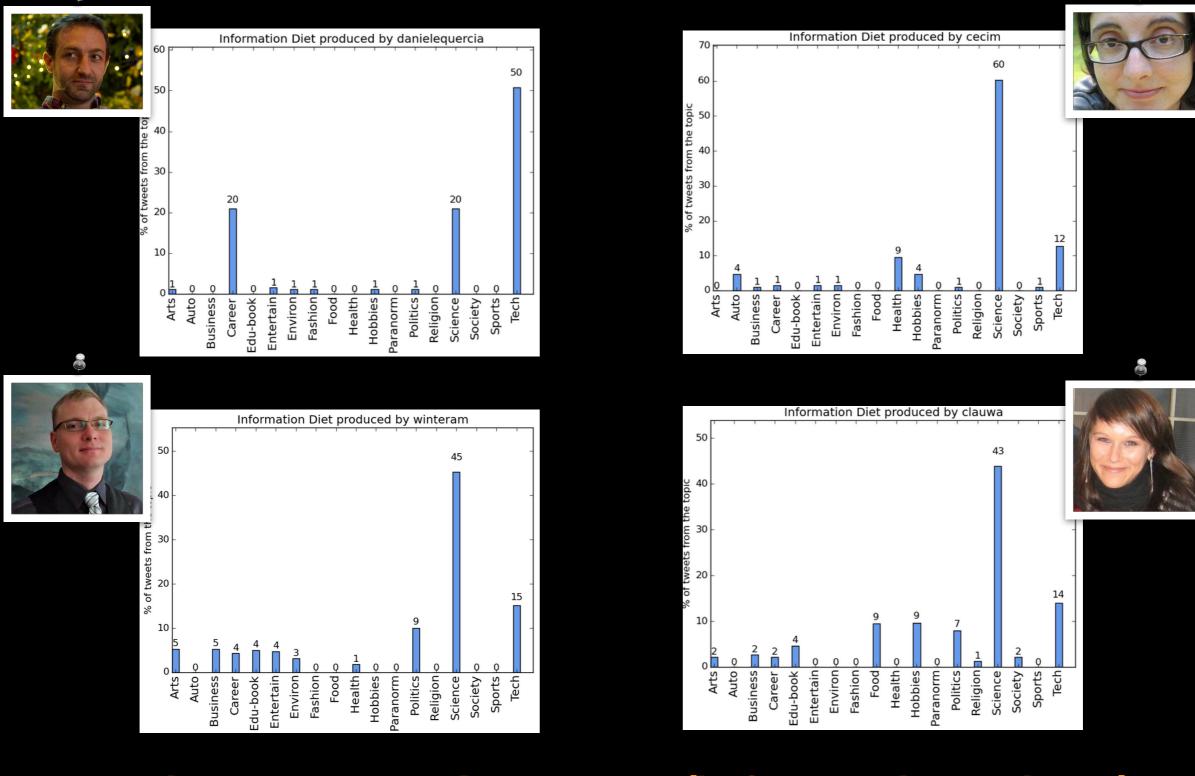
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Results on the poster!



twitter-app.mpi-sws.org/information-diets/



twitter-app.mpi-sws.org/information-diets/

Thanks!