

More Equality on the Internet?

- Analyzing How Identities Constrain (or Liberate) Online Communication

Wei Luo

Department of Sociology
SUNY at Buffalo
wluo3@buffalo.edu

Zhiya Zuo

Department of Information Science
University of Iowa
zhiya-zuo@uiowa.edu

Your feedback is appreciated.



Theoretical Background

- Are we free to express in every way we would like?
- **Gender Identity and Speech** (Lakoff 1975; Eliasph 1987; Brody and Hall, 1993; Kring and Gordon, 1998)
 - Emotional expressiveness
 - Politeness



Theoretical Background

- Are we free to express in every way we would like?
 - **Medical Role and Speech** (Maynard 1991; Mishler 1984; Parsons 1951; Starr 1982; Foucault 1972)
- Topic of narratives



Research Question & Hypothesis:

- How do gender and medical identity affect **online** communication patterns?
- **Hypothesis***: The online environment gives individuals more freedom in expression so that their communication patterns are less constrained by gender identity and medical roles.
- The online disinhibition effect (Suler 2001): **we are equals on the Internet !**



Data

- Online health forum (Doctors' Lounge)

Early Signs Of heart Failure

by [Link_pad](#) » Fri Nov 13, 2009 2:01 pm

Hi,

I am a 25 Year old fit Male, 4 Months ago i was diagnosed with Severe TR. Worrying itself i didn't recieve any symptoms. But in Last month i have had onset of Chest pain i went to A & E had ECG and blood test both were Ok. But now i have noticed sometimes rapid heartbeats, occasional Chest Pain, constant indigestion. I am beggining to suspect the early signs of heart failure i have a cardio Surgeon who will replace my valve should i make him more aware of how i am now feeling ??

Thanks

Patrick Lee



[Link_pad](#)
Guest

Posts: 4

Joined: Fri Nov 13, 2009 1:52 pm

Gender: Male

Re: Early Signs Of heart Failure

by [John Kenyon, CNA](#) » Mon Nov 30, 2009 9:23 pm

Hello Patrick -- While the symptoms may be coincidental, they also could be related to right heart failure, so yes, I think it would be prudent to let the doctor know about this. If he feels it's irrelevant it probably is. If not then he'll want to take a closer look. Its difficult to say from a distance whether or not this is actually related to the defective valve, but it could be, and that's reason enough to let your doctor know.

Hope this helps. Good luck to you and please keep us updated.

John Kenyon, EMT, CCT

Non-invasive cardiology tech, Emergency and Critical Care technician, Critical Incident Stress Mgmt. specialist



[John Kenyon, CNA](#)
Nurse Assistant

Posts: 2846

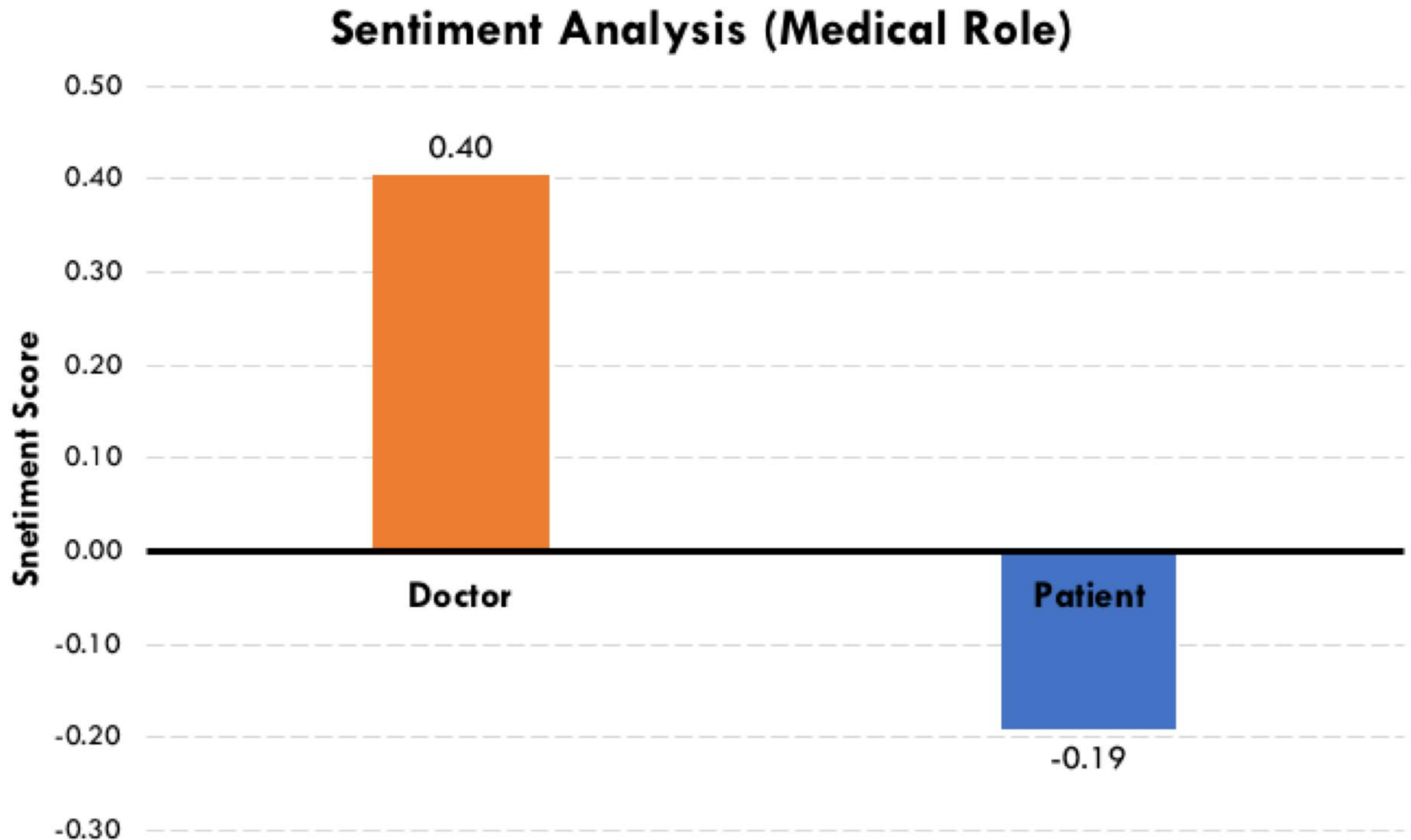
Joined: Wed Dec 20, 2006 1:05 pm

Gender: Male

Location: Laurel, MD

Methods and Results

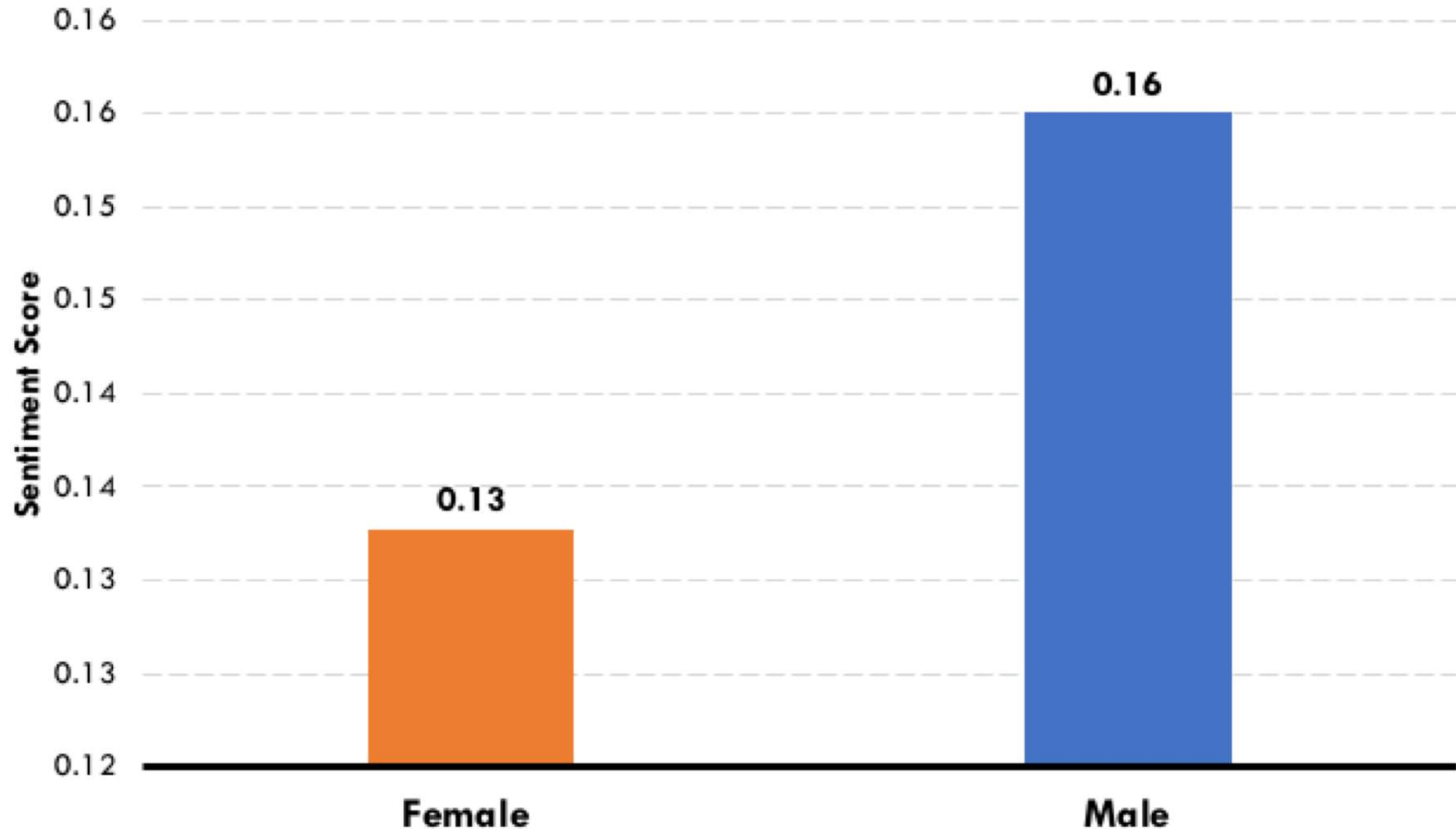
- VADER Sentiment Analysis (**Hutter and Gilbert, 2014**)



Methods and Results

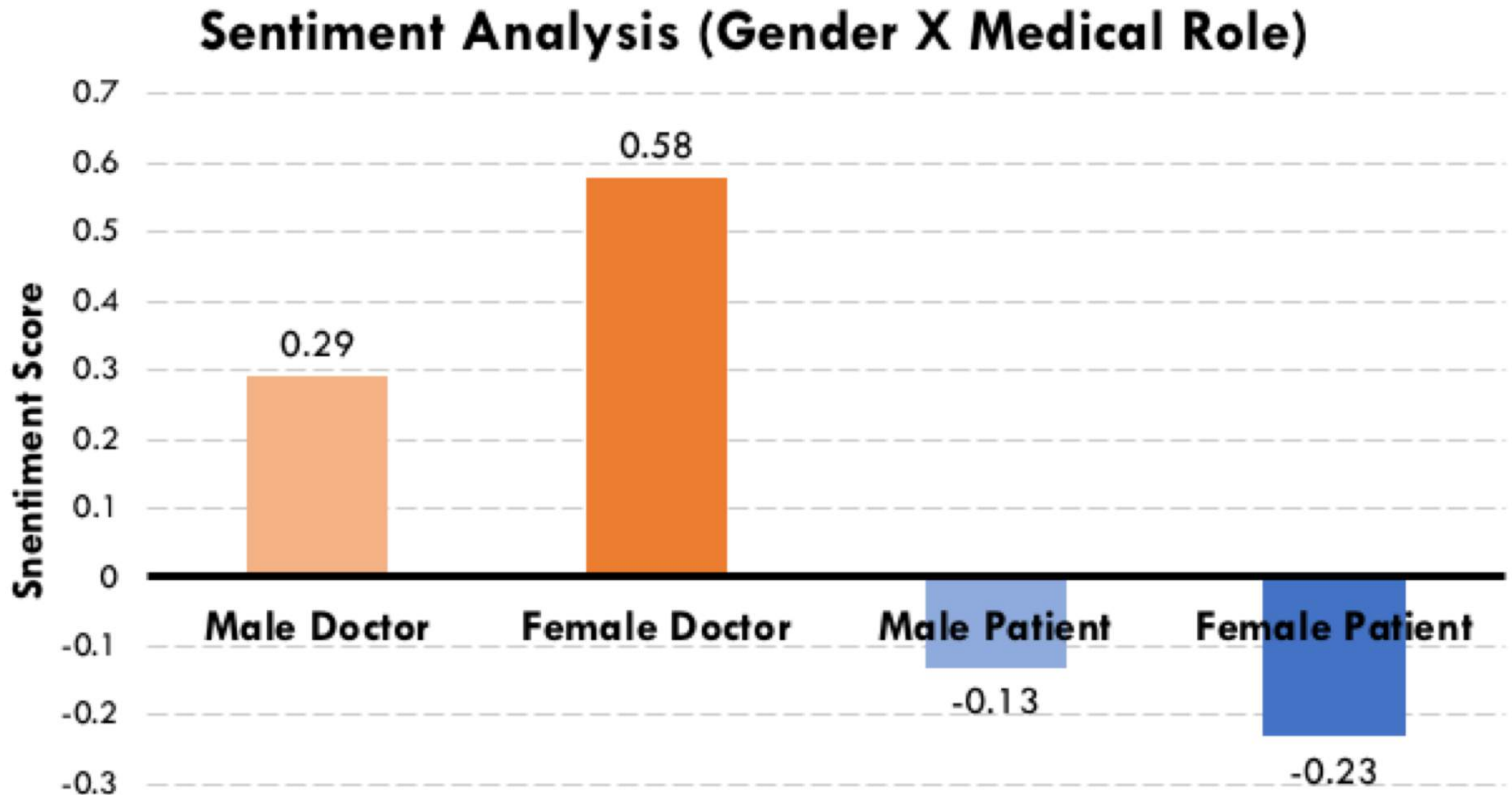
- VADER Sentiment Analysis

Sentiment Analysis (Gender)



Methods and Results

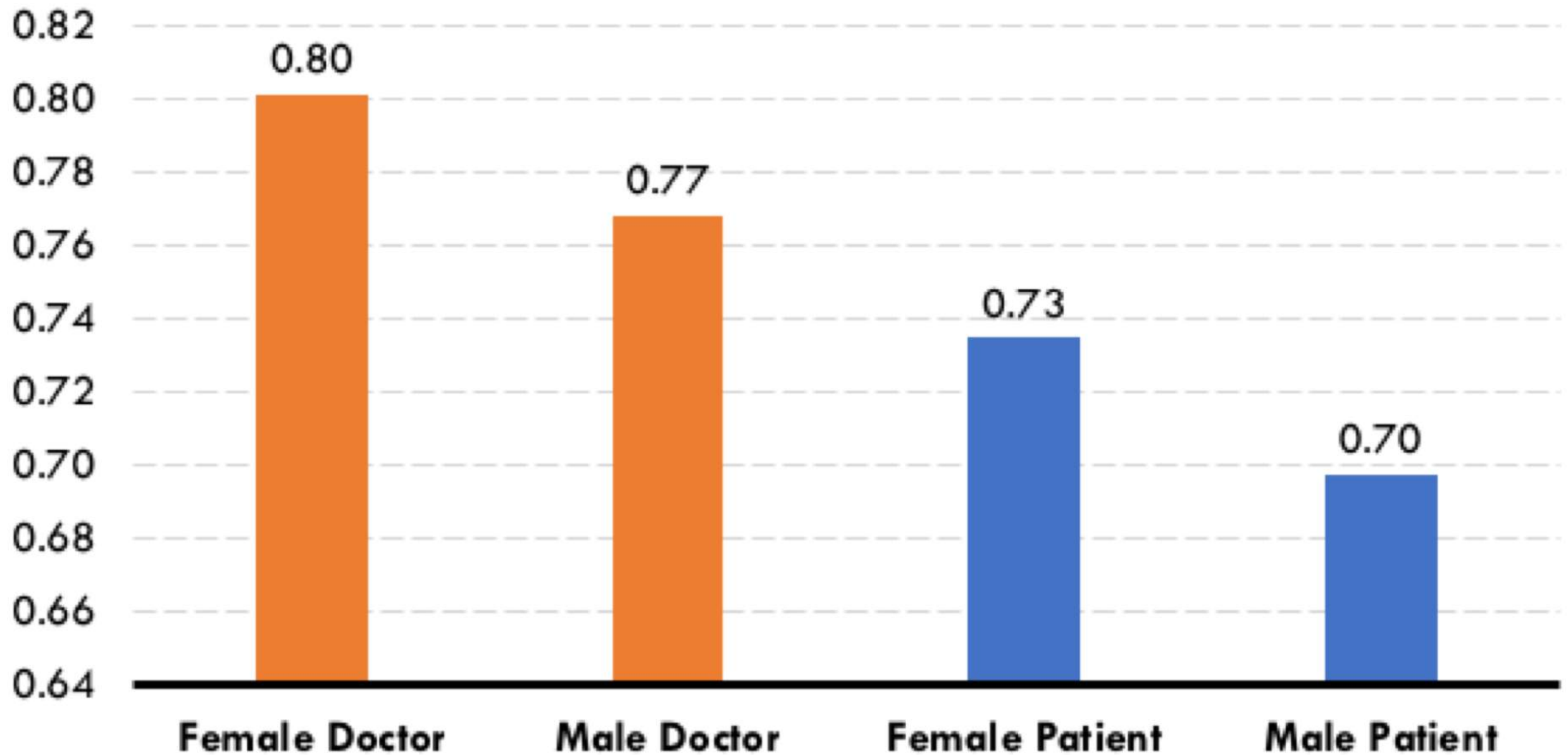
- VADER Sentiment Analysis



Methods and Results

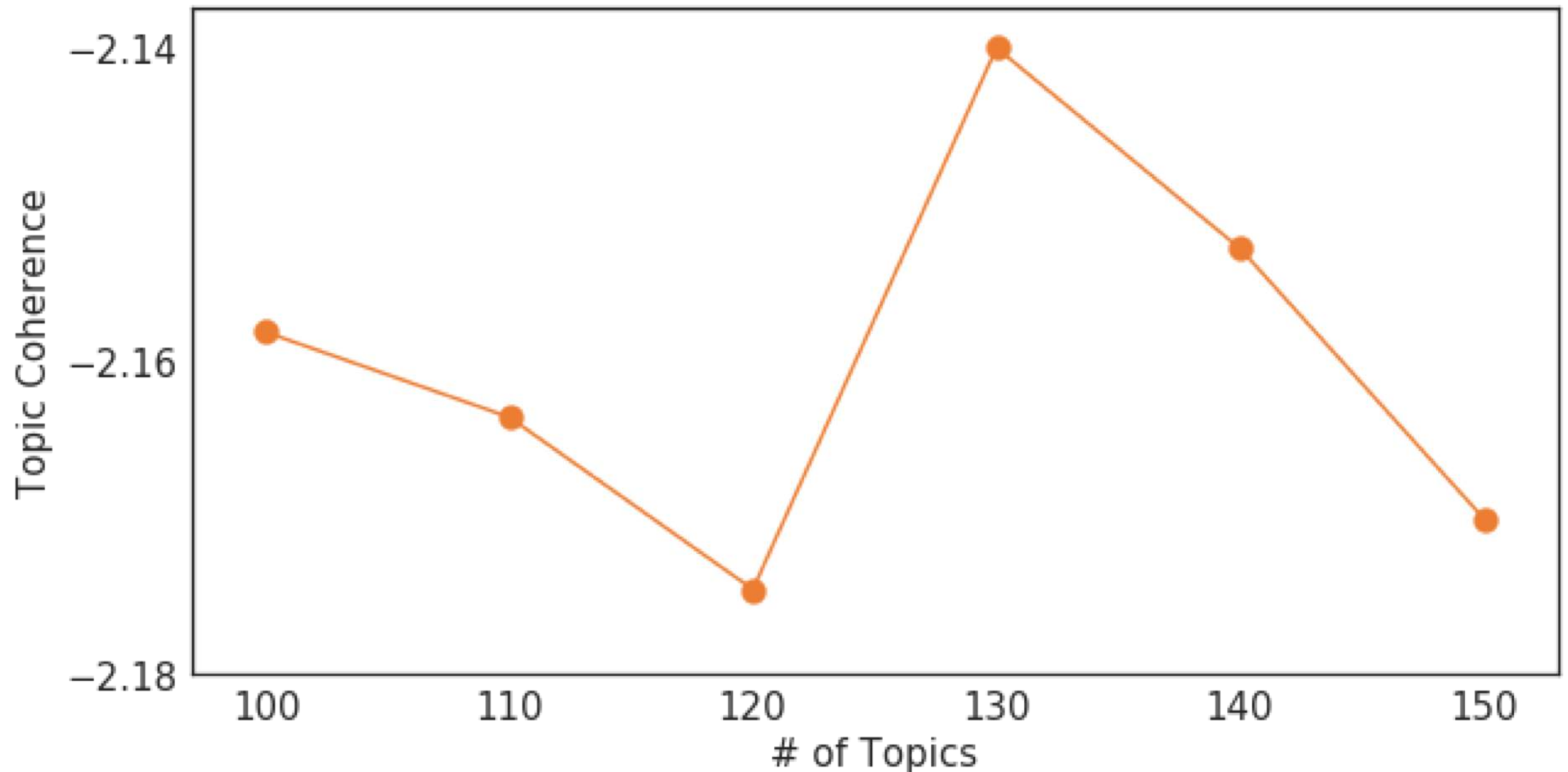
- Politeness (Danescu-Niculescu-Mizil et al., 2013)

Politeness Analysis



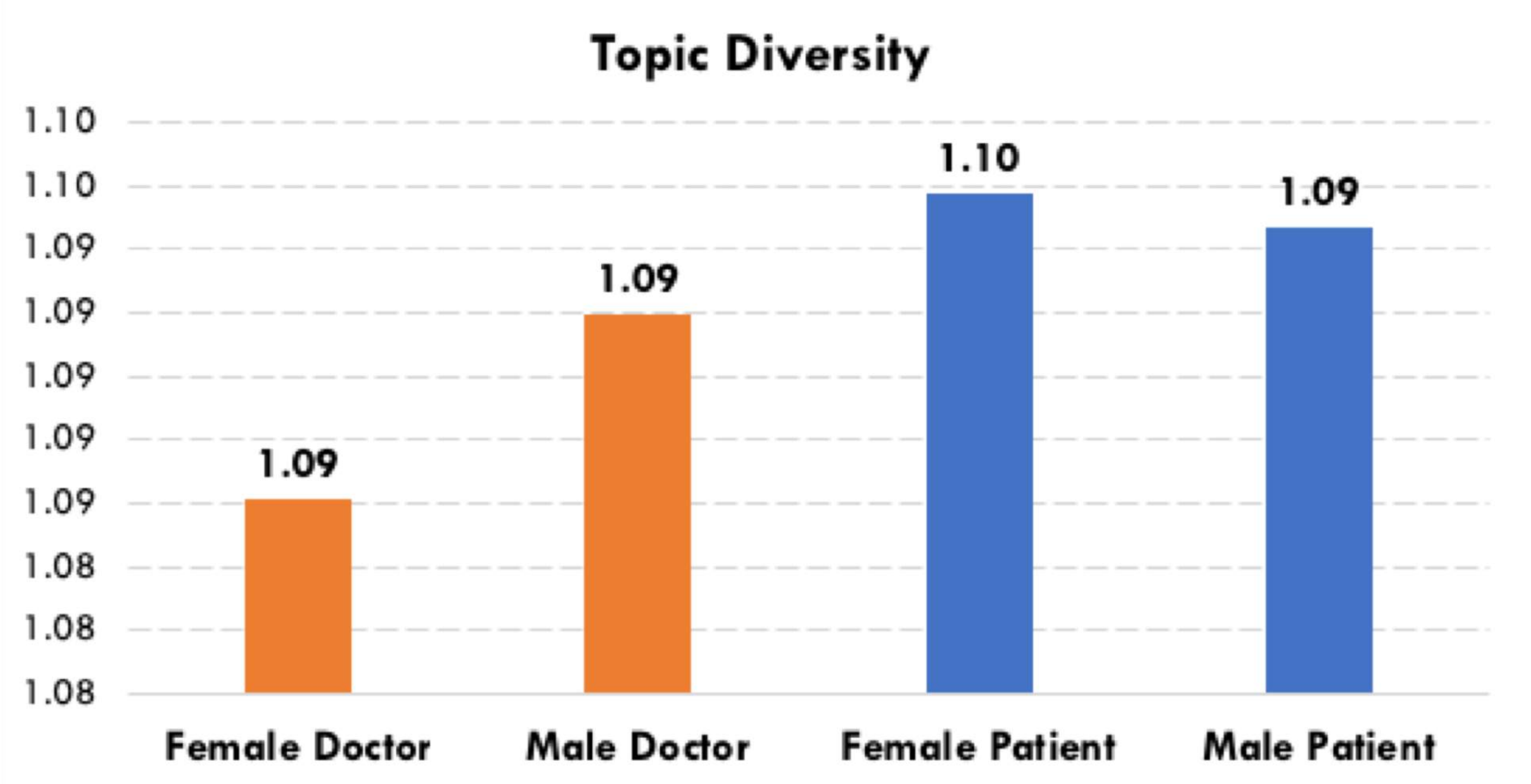
Methods and Results

- Topic Modeling
- Latent Dirichlet Allocation (Blei et al., 2003)
- # of Topics: **130** (Röder et al., 2015)



Results: Topic Diversity

- Entropy as diversity score (Shannon 1949)



Discussion

- The strengths of computational sociolinguistics, in general (Nguyen 2017)
- Limitations / Future Directions
 - More nuanced analyses...
 - More interesting questions...

Q & A