Bias against "she" pronouns can be rapidly overcome by changing event expectations



Till Poppels *Université de Paris*



Veronica Boyce Stanford University



Chelsea Ajunwa *MIT*



Titus von der Malsburg *University of Potsdam*



Roger Levy MIT

July 2016 "Who will be the next US president?"

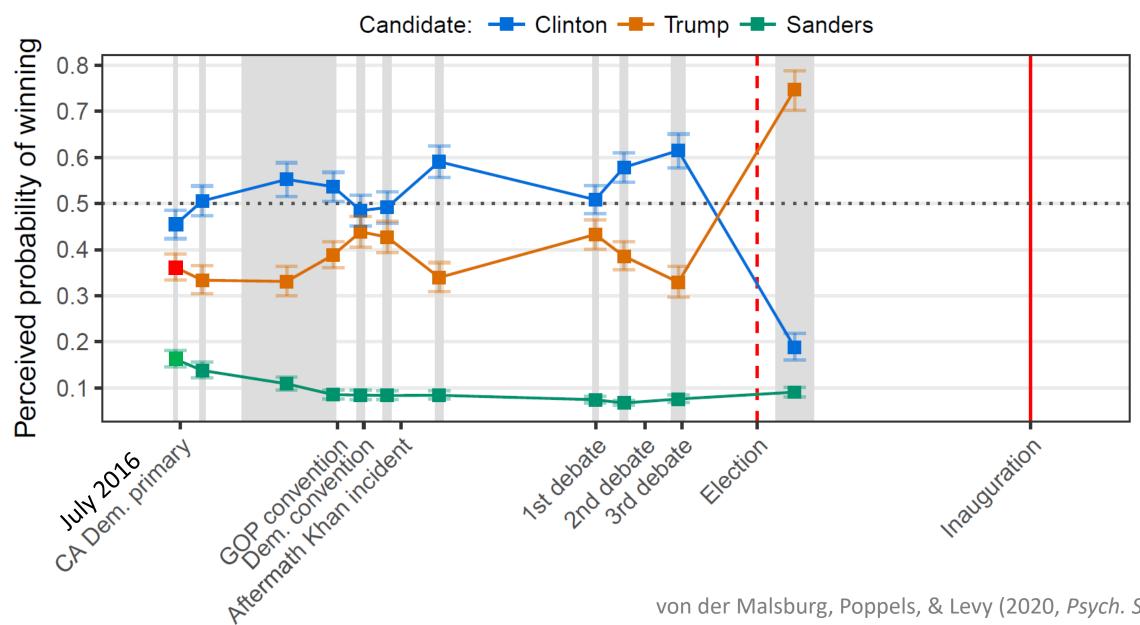
July 2016 "Who will be the next US president?"



July 2016 "Who will be the next US president?"



"Who will be the next US president?"



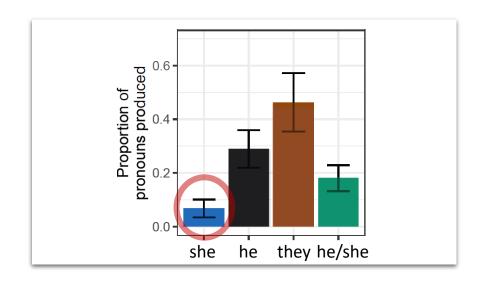
Production

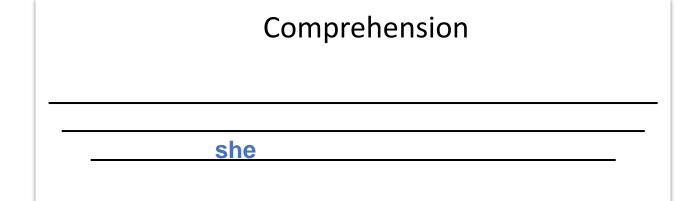
The next US president will be sworn into office in January 2017. After moving into the Oval Office, one of the first things that [_____].

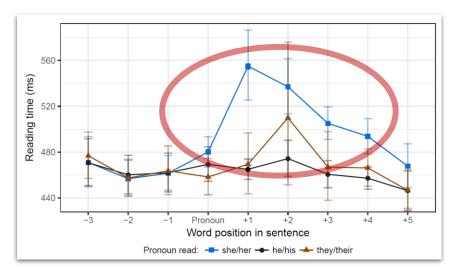
Comprehension

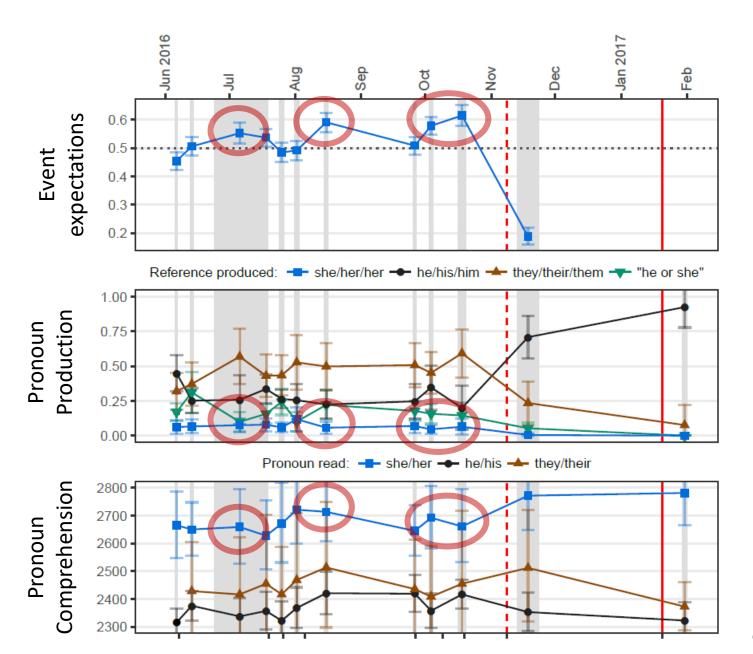
Production

The next US president will be sworn into office in January 2017. After moving into the Oval Office, one of the first things that [_____].

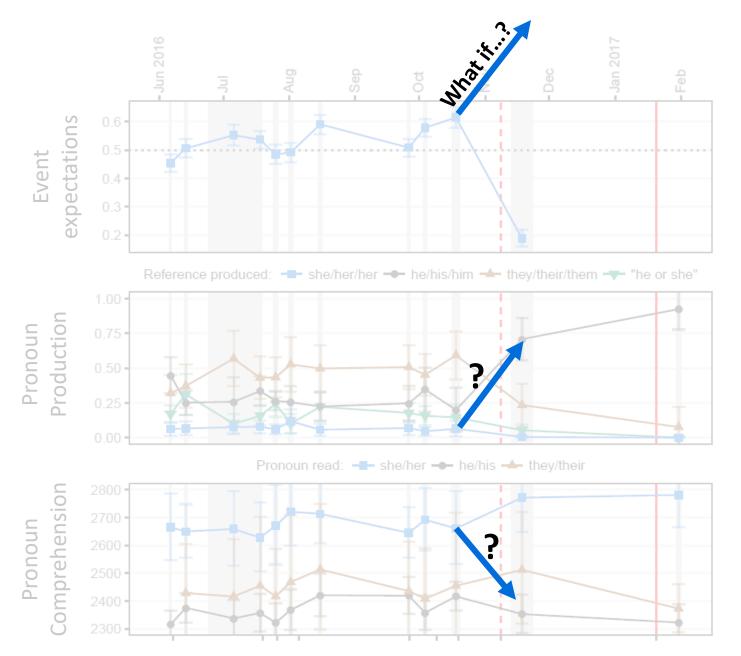


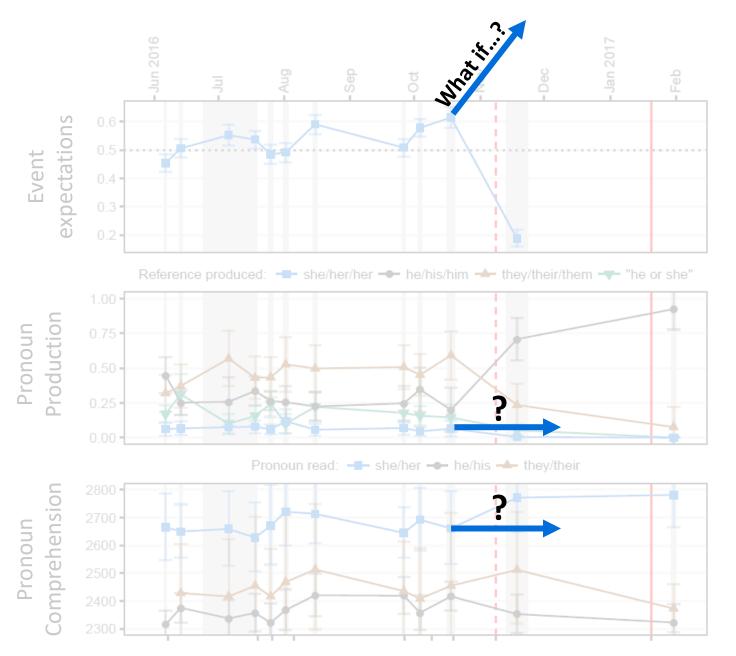






von der Malsburg, Poppels, & Levy (2020, *Psych. Science*)

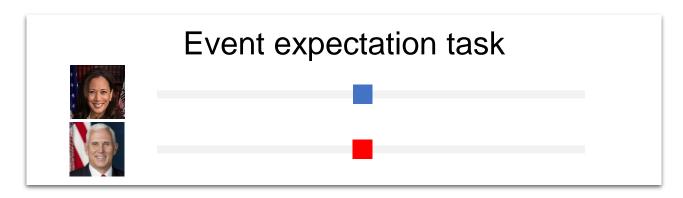




Bias against "she" pronouns can be rapidly overcome by changing event expectations







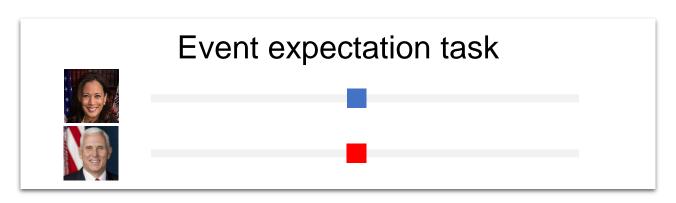
Production

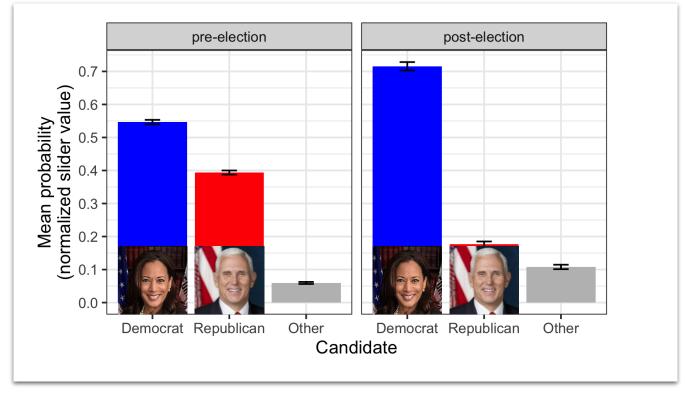
January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then

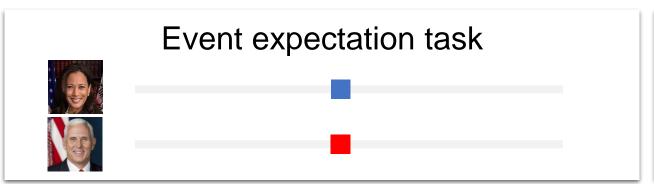
.

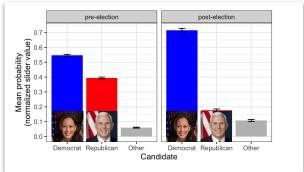
Comprehension: A-Maze RTs

walks









Production

January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then

.

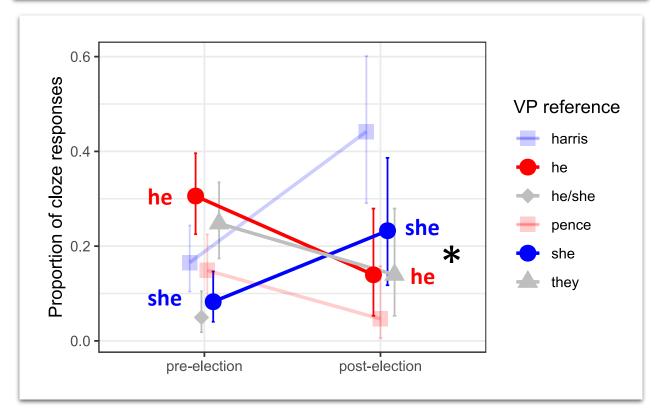
Comprehension: A-Maze RTs

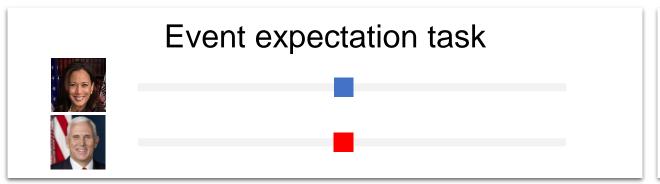
walks

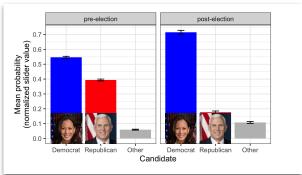
Production

January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then

_____].



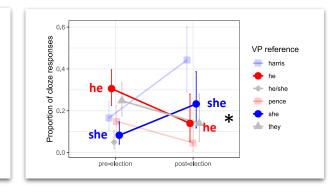




Production

January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then

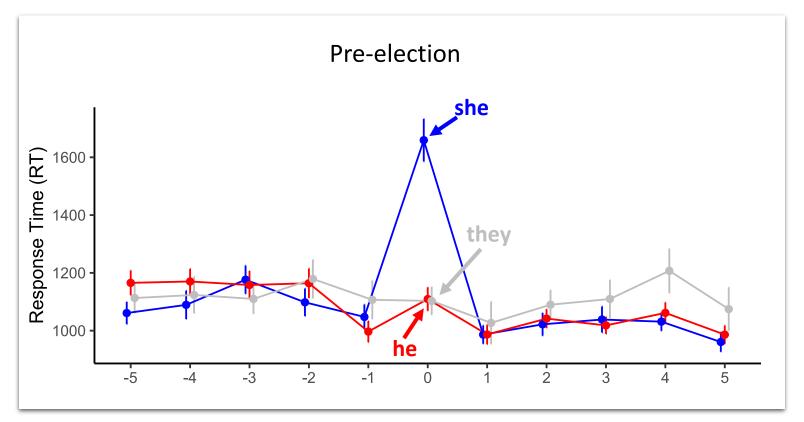
. , , . _____].

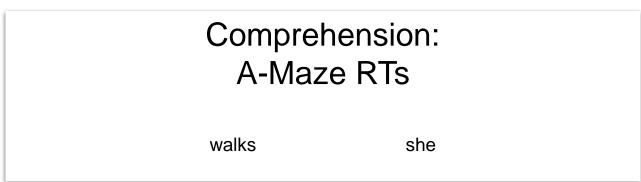


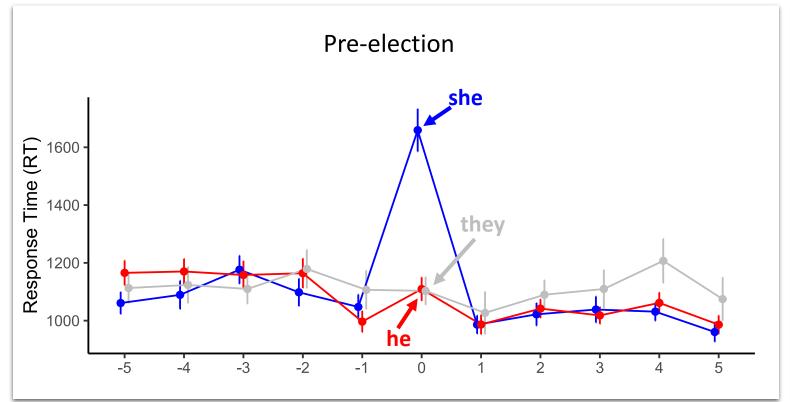
Comprehension: A-Maze RTs

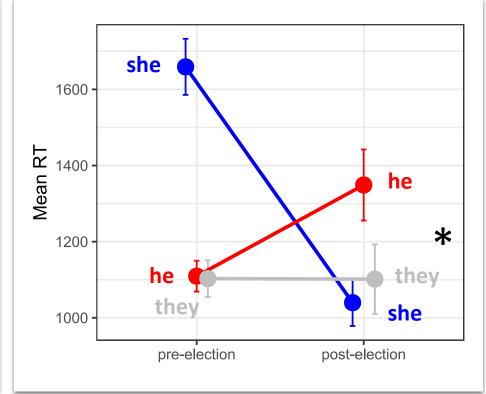
walks

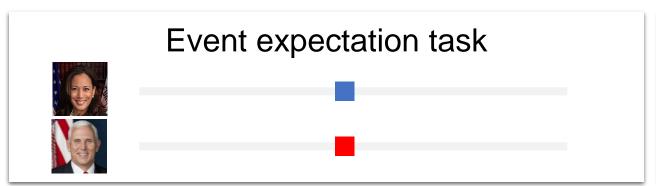


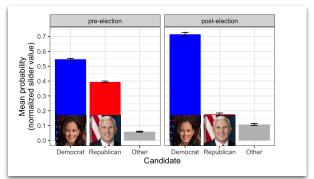






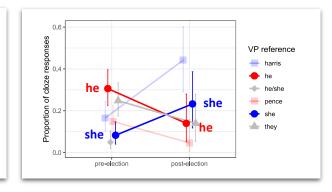






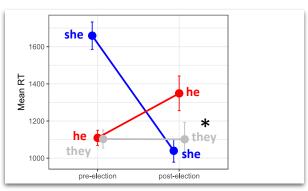
Production

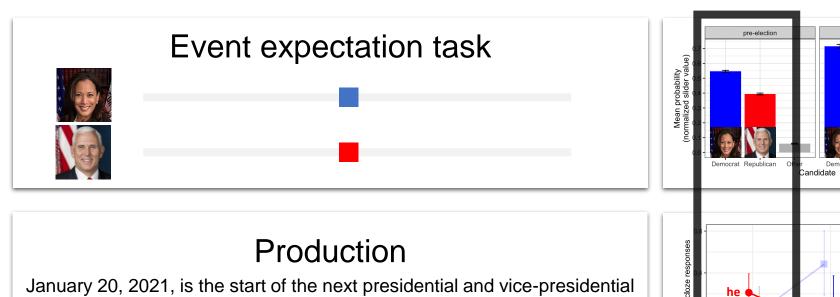
January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then



Comprehension: A-Maze RTs

walks



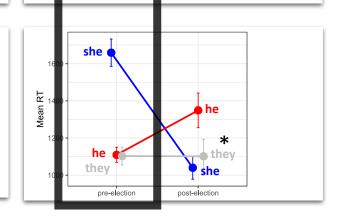


she

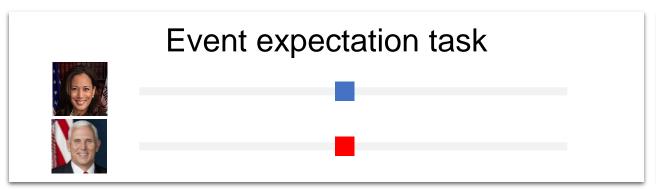
January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then

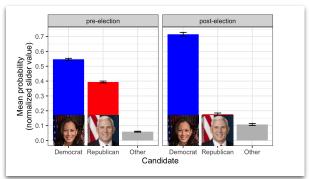
Comprehension: A-Maze RTs

walks







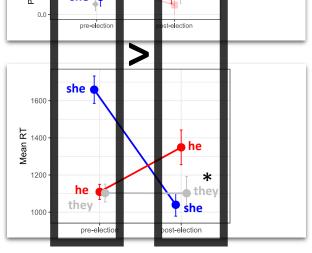


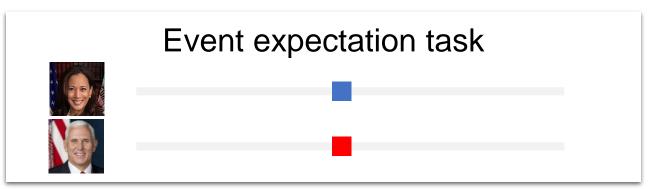
Production

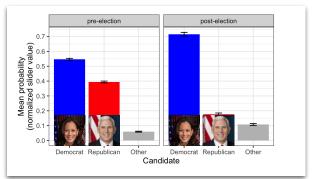
January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then

Comprehension: A-Maze RTs

walks

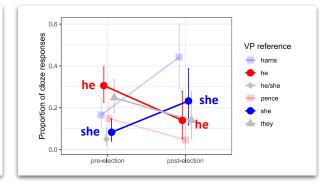






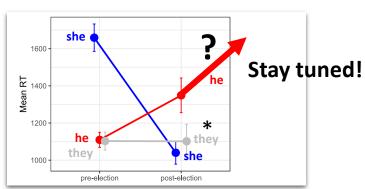
Production

January 20, 2021, is the start of the next presidential and vice-presidential term in the United States. Because the vice president breaks ties in the US Senate, if there is a 50–50 party split in 2021 then



Comprehension: A-Maze RTs

walks



Thank you.



Veronica Boyce Stanford University



Chelsea Ajunwa *MIT*



Titus von der Malsburg *University of Potsdam*



Roger Levy *MIT*