

Supplementary material to:

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Sharing a Driver's Context with a Caller via Continuous Audio Cues to Increase Awareness about Driver State

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1. Trial-by-trial questionnaire driver

Please circle the answer that most closely corresponds to your situations

PP__ Trial__

| | strongly disagree | | | | strongly agree |
|---|------------------------------|----------|----------|----------|---------------------------|
| This driving task was difficult: | 1 | 2 | 3 | 4 | 5 |
| The story task was difficult: | 1 | 2 | 3 | 4 | 5 |
| I found it difficult to come up with sentences for the story task: | 1 | 2 | 3 | 4 | 5 |
| I found it difficult to both drive and talk: | 1 | 2 | 3 | 4 | 5 |
| The remote caller had difficulties to generate sentences for this story: | 1 | 2 | 3 | 4 | 5 |
| I was stressed | 1 | 2 | 3 | 4 | 5 |

2. Post-experiment questionnaire driver

PP ____

Please fill in the answer that most suits your situation. When given an open question, please motivate your answer; use the back of the page if you need more space. All information will be treated confidentially and cannot be traced back to you individually.

Sex: female / male

Age: ____ years

How long do you have your driver's license? _____ year

How many minutes a day do you spend on average driving a car? _____ minutes

How do you know the other person in the experiment? Please circle the best matching option:

- A. We're in a relationship (e.g., partner, lover, husband, wife)
- B. Family
- C. Friend
- D. Colleague
- E. I don't know this person
- F. Other, namely:.....

How well do you know the other person?

Not at all **1** **2** **3** **4** **5** **very well**

How well does the other person know you?

Not at all **1** **2** **3** **4** **5** **very well**

How strong do you agree with this statement:

"Whenever the soothing music was played, I could completely relax"

strongly disagree **1** **2** **3** **4** **5** **strongly agree**

How well do you think you performed on the driving task, and why?

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How well do you think you performed on the conversation task, and why?

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Did you use any particular strategies to maintain the objective of driving safely, while also taking part in the conversation? If so, could you explain your strategy/strategies?

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Did the conversation go differently when you were also driving, compared to when you were having a conversation without driving? In what way?

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Were there times where you had to sacrifice the conversation to maintain good driving performance.

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In general, did you feel that the remote caller was aware of how busy you were and made a good effort to support you in concentrating more on the driving task? How did you notice that?

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Did you feel the need to explicitly telling the caller that you were in a difficult driving situation at any point?

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Do you have any additional comments about the experiment?

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3. Trial-by-trial questionnaire caller

Please circle the answer that most closely corresponds to your situations
Trial___

PP___

| | strongly disagree | | | | strongly agree |
|--|------------------------------|----------|----------|----------|---------------------------|
| The story task was difficult: | 1 | 2 | 3 | 4 | 5 |
| I found it difficult to come up with sentences for the story task: | 1 | 2 | 3 | 4 | 5 |
| The driver had difficulties with generating sentences for this story: | 1 | 2 | 3 | 4 | 5 |
| I found it difficult to assess whether the driver was busy | 1 | 2 | 3 | 4 | 5 |
| I think the driver was busy: | 1 | 2 | 3 | 4 | 5 |

4. Post-experiment questionnaire caller

PP ____

Please fill in the answer that most suits your situation. When given an open question, please motivate your answer; use the back of the page if you need more space. All information will be treated confidentially and cannot be traced back to you individually.

Sex: female / male

Age: ____ years

How long do you have your driver's license? ____ year

How many minutes a day do you spend on average driving a car? ____ minutes

How do you know the other person in the experiment? Please circle the best matching option:

- A. We're in a relationship (e.g., partner, lover, husband, wife)
- B. Family
- C. Friend
- D. Colleague
- E. I don't know this person
- F. Other, namely:.....

How well do you know the other person?

Not at all 1 2 3 4 5 very well

How well does the other person know you?

Not at all 1 2 3 4 5 very well

How well do you think you performed on the conversation task, and why?

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Did you use any particular strategies to keep the conversation going and making it easier for the driver to participate in the conversation while also driving safely? If so, could you explain your strategy/strategies?

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You received information about the driver's business on the road in various forms. How useful was each type of information in assessing their business? Please circle the answer that most closely resembles your opinion.

| | not useful at all | | | Very useful | | |
|---------------------------|------------------------------|----------|----------|--------------------|----------|--|
| Car sounds: | 1 | 2 | 3 | 4 | 5 | |
| Heart beat sounds: | 1 | 2 | 3 | 4 | 5 | |

Did you also use information in the driver's speech sound to assess how busy they were? If so, what information did you use?

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Did you feel the need to explicitly ask the driver whether they were in a difficult driving situation at any point?

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The conversation generator provided several methods to support you in coming up with sentences for the story. How useful was each type of information? Please circle the answer that most closely resembles your opinion.

| | not useful at all | | | Very useful | | |
|-------------------------------|------------------------------|----------|----------|--------------------|----------|--|
| Opening sentence: | 1 | 2 | 3 | 4 | 5 | |
| Seven fixed words: | 1 | 2 | 3 | 4 | 5 | |
| Random word generator: | 1 | 2 | 3 | 4 | 5 | |
| Random name generator: | 1 | 2 | 3 | 4 | 5 | |

Do you have any additional comments about the experiment?

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