Drummer Expressiveness AND

Happiness





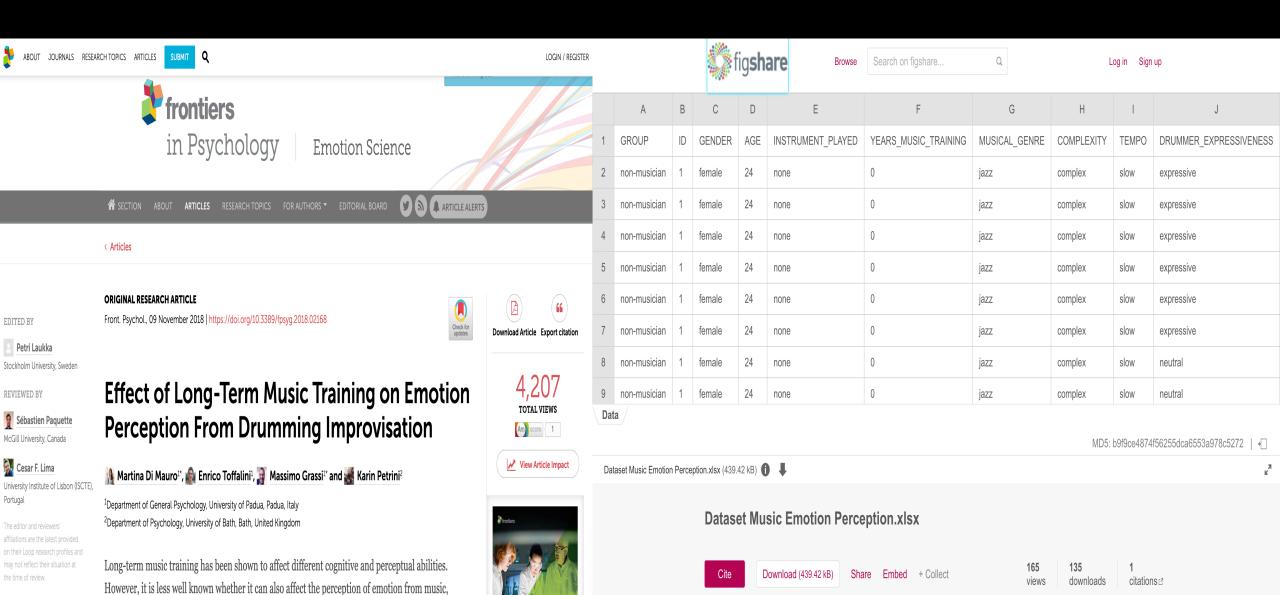
Prepared By Brendan Chua

Nov 23, 2020

DATA

especially purely rhythmic music. Hence, we asked a group of 16 non-musicians, 16 musicians with

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QUESTION

Q1. Is drummer expressiveness dependent on happiness?

Null: Drummer expressiveness is not dependent on happiness

Alternative: Drummer expressiveness is dependent on happiness

Q2. Is perceived expressiveness dependent on drummer expressiveness when combined with other factors?

Null: Perceived expressiveness is not dependent on drummer expressiveness when combined with other factors

Alternative: Perceived expressiveness is dependent on drummer expressiveness when combined with other factors

METHODS

- ☐ Linear Model (Q1)
- Bayesian Linear Model
- Bayesian Logistic Regression

☐ Linear Model + Multiple Factors (Q2)

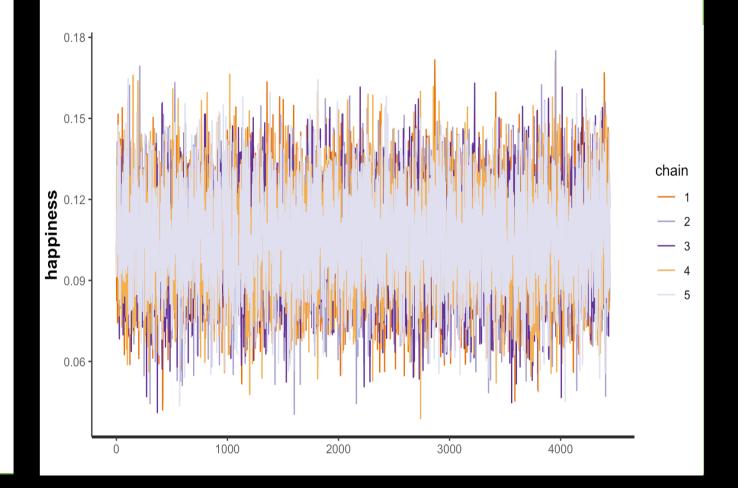
Linear Model

Drummer Expressiveness on Happiness

```
Coefficients:
```

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.478462    0.008228    58.154    < 2e-16 ***
happiness    0.105580    0.018216    5.796 7.25e-09 ***
```

Bayesian Linear Model 2.5% 97.5% happiness 0.06979058 0.1405223



Bayesian Logistic Regression

```
Estimates:
                        10%
                              50%
                                   90%
                   sd
             mean
(Intercept) 0.1
                      0.0
                  0.0
                             0.1
                                  0.1
happiness
                  0.1 - 0.5
           -0.4
                            -0.4
                                  -0.3
```

Exp(-0.4)

0.67032

Linear Model

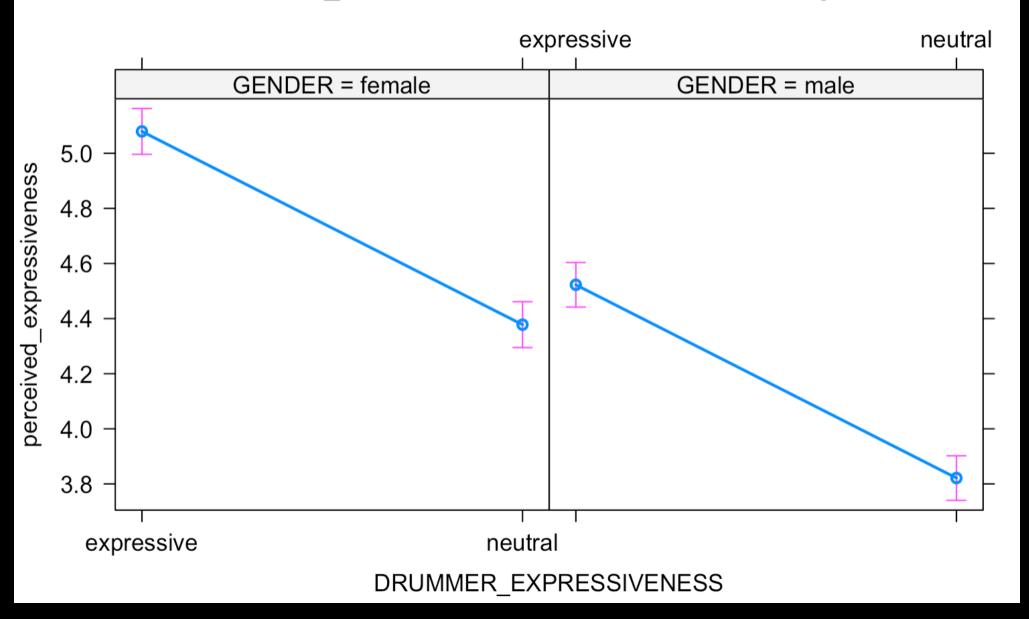
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Multiple Factors

Perceived Expressiveness on Drummer Expressiveness

- + Complexity
- + Drummer Style
- + Musical Genre
- + Tempo
- + Gender

DRUMMER_EXPRESSIVENESS*GENDER effect plot



DRUMMER_EXPRESSIVENESS*MUSICAL_GENRE effect plot



IMPLICATIONS

- Drummer expressiveness and happiness are correlated
- Perceived expressiveness is tied to many factors
 - Drummer and happiness/expression study
 - ☐ Gender and expression in relation to drumming research

THANK YOU

QUESTIONS?