

How music tastes change over time: A longitudinal study on peer influence

Sven Strating (4974611) and Yuxuan Jin (9990860). Sociology and Social Research, Department of Sociology, Utrecht University



Introduction

- Teenagers often change their music taste [1].
- However, most researchers use individual-level characteristics like mood or personality to explain music taste instead of peer influence [2].
- In addition, Carli [3] found that boys are generally more influenced by peers than girls, especially concerning some collective 'group image' that may be disturbed by deviant behavior.

Research Questions

varies with persons and classes.

c. "R" is short for "respondent"

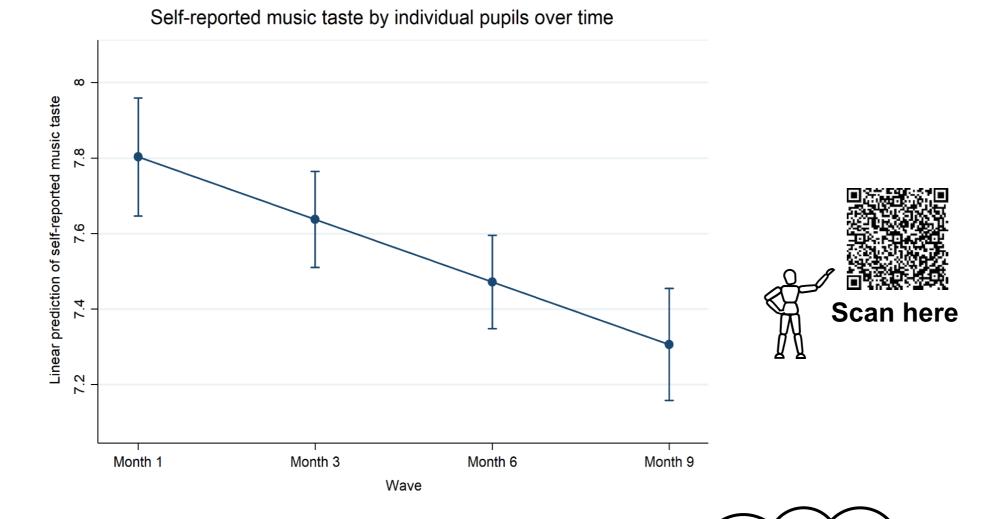
- Does the music taste of a teenager change over time?
- Could peer influence explain why the music taste of a teenager change over time, and is there a difference between boys and girls?

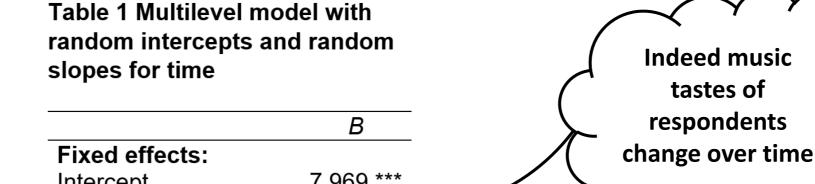
Conceptual Model _______ H1: +/-Music taste of **Time** R ------H2: + Music taste of R Music taste of friends at t at *t+1* H3:+ R's Gender (1=boy, 0=girl) Note. a. For H1, we assume that the effect of time on the music tastes of respondents also

b. green = supported, red = not supported, see results for more details

Results

Figure 1 Self- reported music taste by individual pupils over time





Intercept 7.969 *** Wave -.166 *** Random effects: Level 2: Within-person $\sigma^2_{u(wave_i)}$: 2.067 ***

Level 3: Class-level $\sigma^2_{u(wave_j)}$: .031 * .031 * Obs .237,323

Note. p<0.001***, p<0.01**, p<0.05*

Peers influence each others music taste.
However, the effect size and direction differ by gender.

Table 2 Dynamic time model with the random intercept at ego_level

		All	Girls	Boys	
		В	В	В	
	Fixed effects:				
	Intercept	15.928 ***	15.026 ***	6.076 ***	
	Mainstream Music ego	335 ***	-0.249	1.232 ***	_
H2/H3	Mainstream Music_friends	097 ***	549 ***	1.293 ***]
	Number of friends	.580 ***	4.891 ***	-6.878 ***	
	Wave	324 ***	-3.469 ***	-3.252 ***	
	Male	-4.137 ***			

Random effects:

Level 2: Ego-level			
σ^2 : Constant	10.909	16.026	36.008
σ_{ϵ}^2	.504	.106	.111
Obs	844	354	490
Note. p<0.001***, p<0.01**, p	<0.05*		

Data and Methods

Longitudinal Data: four waves, every 3 month | 3165 pupils in the first grade | 126 classes | 14 Dutch secondary schools | 2003/04

Measurements:

- Dependent variable: listen to mainstream music (1-10: from "others" to "pop music")
- Independent variables: a. Wave (1-4); b. listen to mainstream music tastes of respondents' friends

Models:

- Three level multilevel model: Level 1: Time | Level 2:
 Person | Level 3: Class
- Dynamic model: Model 1: All teenagers | Model 2: Girls
 | Model 3: Boys

Conclusion

- 1. On average, students tend to listen to less mainstream music over time. But time effects vary with persons and classes.
- 2. If their friends listen to more mainstream music, teenagers will listen to less mainstream music over time
- 3. If their friends listen to more mainstream music, girls will listen to less mainstream music over time while boys will listen to more mainstream music.

Limitation

 The rank of mainstream music is in 2018 and is constructed for the general population, not for teenagers specifically.

References

[1] Thomas, K. S. (2016). Music Preferences and the Adolescent Brain. *Update: Applications of Research in Music Education*, 35(1), 47–53. doi:10.1177/8755123315576534

[2] Laplante, A. (2014). Improving music recommender systems: what can we learn from research on music tags? In 15th International Society for Music Information Retrieval Conference (ISMIR '14). *International Society for Music Information Retrieval*, 451–456.

[3] Carli, L. L. (2001). Gender and Social Influence. *Journal of Social Issues*, *57*(4), 725–741. doi:10.1111/0022-4537.00238