Bochum Conference on Gambling and Society |

Inter-country comparisons in gambling research

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Subjective wellbeing and participation in online gambling communities: A crossnational gambling study among young people in Finland, United States, South Korea and Spain

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Starting points



- Growing importance of online gambling
- Online ecosystem for online gamblers
 - 1. Gambling sites (online casinos)
 - 2. Financial resources (pay-day loans, cryptocurrencies)
 - 3. Advertisements (targeted advertisement on gambling and loans)
 - 4. Online gambling communities (supporting peers)
- Online gambling communities are a risk factor for development of gambling problems (Oksanen et al., 2021; Savolainen et al., 2022; Sirola et al. 2018, 2021)

Curse or cure?

- Online communities are significant for young people
 - Maintaining and creating social ties
 - Both positive and negative role
- Online gambling communities
 - Curse: Encouragement for gambling, less on gambling problems or gambling recovery (Sirola et 2018) → higher participation = more gambling problems
 - Cure: Online-gambling community participation had a positive relationship with life satisfaction, especially among pathological gamblers who had poor offline relationships (Koivula et al. 2022)
- Cross-national and contextual differences are likely

Aims

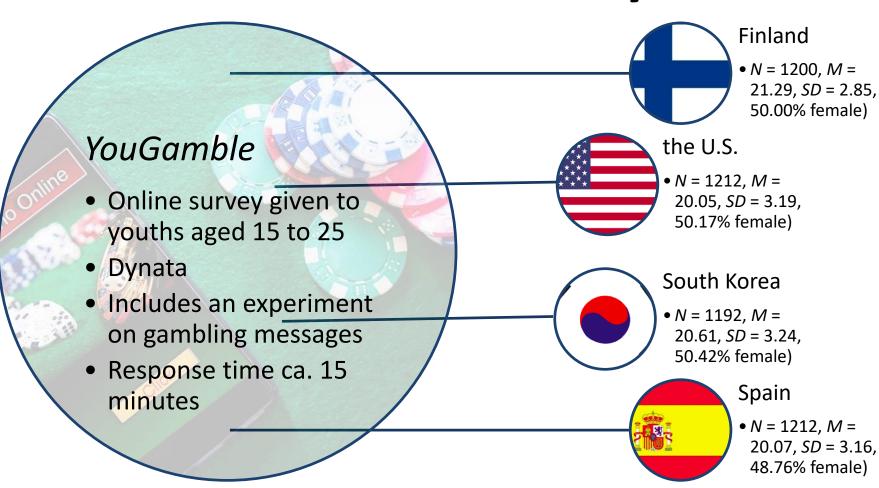
- Aim here is to continue from Koivula et al. 2022 article and investigate
 - 1. How online gambling participation is associated with happiness & psychological distress?
 - 2. How involvement in online identity bubbles is associated with happiness & psychological distress?
 - 3. Are these relationships moderated by gambling problems?

Problem Gambling and Social Media Project

- Funding: Finnish Foundation for Alcohol Studies 2017–2020
- PI: Atte Oksanen
- Researchers: Dr. Markus Kaakinen, Dr. Aki Koivula, Dr. Iina Savolainen, Dr. Anu Sirola
- Collaboration: Prof. Hye-Jin Paek, Prof. Izabela Zych & Prof. Bryan Lee Miller, Prof. David Garcia
- Data
 - Cross-sectional and experimental data
 - Large scale data on social media gambling discussions

https://projects.tuni.fi/problem-gambling-and-social-media/

YouGamble surveys



Gambling in the Digital Age Project (GDA)

- Funding: The Finnish Foundation for Alcohol Studies (2021–2024)
- PI: Atte Oksanen
- Researchers: Dr. Iina Savolainen, Dr. Eerik Soares Mantere, Dr. Anu Sirola, Ilkka Vuorinen, Heli Hagfors, Hannu Jouhki, Janne Vepsäläinen
- Main aims: 1) online gambling, 2) convergence of gambling and gaming, and 3) new forms of gambling
- Data: 1) Longitudinal survey data, 2) interview data, and 3) online data

GDA longitudinal surveys

- *Gambling in the Digital Age* survey was targeted to Finnish speakers in mainland Finland in April 2021
 - Participants (N = 1530): 18–75 years old (M = 46.67; SD = 16.42),
 50.33% male
 - Data collection was administrated by Norstat
 - All respondents answered the 15-min survey online.
 - Sample vs. population: no major deviation in gender, age,
 geographical area; slightly more participants with higher education
- Follow-up surveys in 6-month intervals
 - T2, Oct–Nov 2021 (n = 1198, 78% out of T1)
 - T3, Apr-May 2022 (n = 1097, 72% out of T1)
 - T4, Oct–Nov 2022 (n = 1008, 66% out of T1)
 - T5, Apr-May 2023 (n = 937, 61% out of T1)
 - T6 to be collected, T7–T8 likely in 2024

Main measures

Subjective well-being

- Happiness
- Psychological distress (GHQ-12 for YouGamble; MHI-5 for GDA)

Online communities

- Gambling communities participation
- Involvement in social media identity bubbles (IBRS-6, Kaakinen et al. 2020)

Gambling problems

- South Oaks Gambling Screen (SOGS) for YouGamble
- Problem Gambling Severity Index (PGSI) for GDA

Table 1. YouGamble regression models on happiness and distress (gambling communities)

	Happiness		Psychological distress	
	Beta	Р	Beta	Р
Gambling problems (SOGS)	04	.001	.15	<.001
Participation to online				
gambling communities				
Seldom	.01	.465	.00	.897
Daily	.03	.024	.00	0.912
Belonging offline	.59	<.001	35	<.001
Age	.01	.592	.05	<.001
Female gender	01	.293	.15	<.001
country (ref. Finland)				
United States	.05	.001	02	.128
South Korea	09	<.001	01	.461
Spain	01	.702	.02	.320

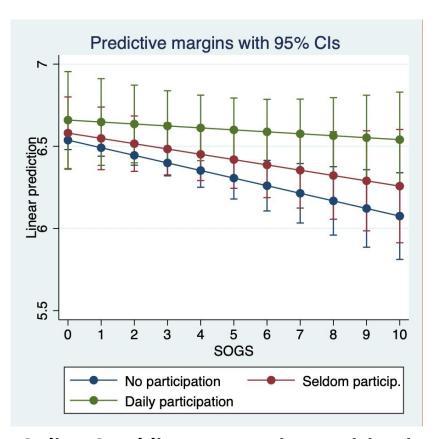
Model n = 4,816, $R^2_{, happiness}$ = .37, $R^2_{, distress}$ = .17

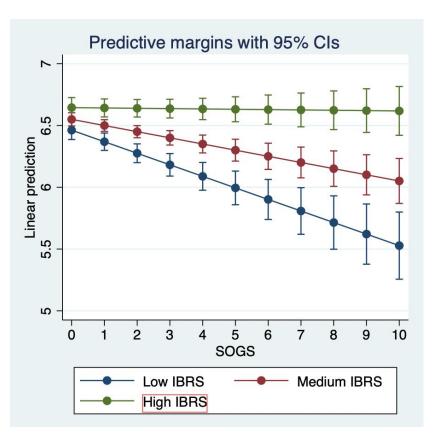
Table 2. YouGamble regression models on happiness and distress (online identity bubbles)

	Happiness		Psychological distress	
	Beta	Р	Beta	P
Gambling problems (SOGS)	04	.001	.14	<.001
Online identity bubbles	.07	<.001	.11	<.001
Belonging offline	.57	<.001	37	<.001
Age	.01	.272	.05	<.001
Female gender	02	.141	.14	<.001
country (ref. Finland)				
United States	.03	.027	06	.001
South Korea	10	<.001	03	.070
Spain	02	.273	01	.689

Model n = 4,816, $R^2_{, happiness}$ = .37, $R^2_{, distress}$ = .19

Happiness moderations

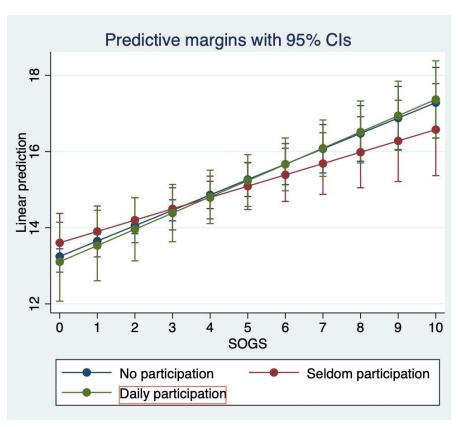


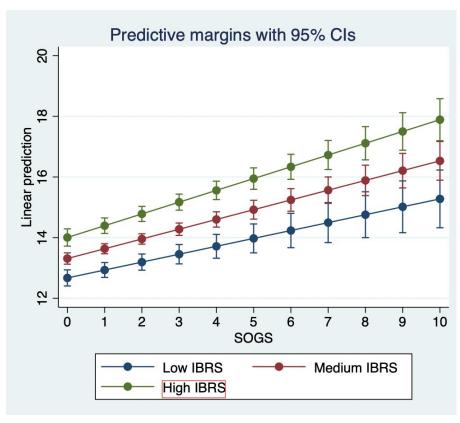


Online Gambling community participation

Online identity bubble involvement

Distress moderations





Online Gambling community participation

Online identity bubble involvement

Note. interaction not significant

Longitudinal considerations

- Hybrid multilevel regression
 - 5 time points, n = 1530, obs in the models = 5,761)
 - PGSI had both within-person and between-person effects on distress (very robust evidence)
 - IBRS had between-person-effect (higher IBRS associated with higher distress)
 - Gambling community participation had no effect
 - No statistically significant interactions



Online gambling environment in Fritz Lange style according Dall-E2 (2023)

Discussion

- Some evidence: online communities = cure and buffer
 - Happiness: no decrease among those highly involved and bubbled
- More evidence: online communities = curse
 - Higher involvement to online bubbles = higher distress
 - Both evidence from cross-national and longitudinal study
 - Longitudinal evidence: more gambling problems if gambling communities + IBRS (Vepsäläinen et al., forthcoming)
- Limitations: self-reported, longitudinal findings limited to Finland, single-item for happiness
- Future studies need to continue analysing the dual nature of online community participation

Selected publications

- Koivula, A., Oksanen, A., Sirola, A., Savolainen, I., Kaakinen, M. Zych, I., Paek, H-J. (2022). Life satisfaction with gambling communities: a cross-national study of excessive gambling actives among Finnish, South-Korean, Spanish and American emerging adults. *Journal of Gambling Studies*, *38*, 1195–1214
- Oksanen, A., Sirola, A., Savolainen, I., Koivula, A., Kaakinen, M., Vuorinen, I., Zych, I., & Paek, H. J. (2021). Social ecological model of problem gambling: A cross-national survey study of young people in the united states, south korea, spain, and finland. *International journal of environmental research and public health*, 18(6), 3220.
- Savolainen, I., Kaakinen, M., Sirola, A., Koivula, A., Hagfors, H., Zych, I., Paek, H.-J., Oksanen, A. (2020). Online relationships and social media interaction in youth problem gambling: A four-country study. *International Journal of Environmental Research and Public Health*, 17(21)8133.
- Savolainen, I., Sirola, A., Vuorinen, I., Mantere, E., & Oksanen, A. (2022). Online communities and gambling behaviors—A systematic review. *Current Addiction Reports*, 9(4), 400-409.
- Sirola, A., Kaakinen, M., & Oksanen, A. (2018). Excessive gambling and online gambling communities. *Journal of Gambling Studies*, *34*(4), 1313–1325.
- Sirola, A., Kaakinen, M., Savolainen, I., & Oksanen, A. (2019). Loneliness and online gambling-community participation of young social media users. *Computers in Human Behavior*, 95, 136-145.
- Sirola, A., Savela, N., Savolainen, I., Kaakinen, M., & Oksanen, A. (2021). The role of virtual communities in gambling and gaming behaviors: A systematic review. *Journal of Gambling Studies*, *37*(1), 165-187.

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YouGamble data is accessible

- Oksanen, A., Sirola, A. & Kaakinen, M. (2017) YouGamble 2017: Finnish Data. Finnish Social Science Data Archive. http://urn.fi/urn:nbn:fi:fsd:T-FSD3399
- Oksanen, A., Sirola, A. & Kaakinen, M. (2017) YouGamble 2017: Additional Finnish Data. Finnish Social Science Data Archive. http://urn.fi/urn:nbn:fi:fsd:T-FSD3400
- Oksanen, A. Kaakinen, M., Sirola, A. & Savolainen, I. (2018): YouGamble 2018: US Data. Finnish Social Science Data Archive (distributor). http://urn.fi/urn:nbn:fi:fsd:T-FSD3591
- Spanish and South Korean data should be released in FSD by the end of the 2023.
- See more: https://projects.tuni.fi/problem-gambling-and-social-media/
- See more: https://projects.tuni.fi/gamblinginthedigitalage/

* Thank you