

Ke Zhang

Centre for Gambling Research
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Research Interests

Behavioural Economics, Gambling, Financial Health, Cognitive Behavioural Intervention, Data Science

Education

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| Sep 2018 – May 2023 | PhD in Cognitive Psychology, UBC
Thesis: Chasing in online gambling and its practical application in gambling intervention
Supervisor: Dr. Luke Clark
Committee: Dr. Jiaying Zhao, Dr. Jason Rights |
| Sep 2016 – Aug 2018 | MA in Cognitive Psychology, UBC
Thesis: The severity of gambling problem and loss aversion in healthy gamblers: the implications of Prospect Theory in Gambling
Supervisor: Dr. Luke Clark |
| Sep 2011 – Apr 2016 | BAs in Economics and Psychology, UBC
Thesis: The effectiveness of water supply and sanitation in child diarrhea
Supervisor: Dr. Nisha Malhotra |

Publications

- Zhang, K., Imas, A., & Clark, L. (2023, August 31). A clean slate: adapting the realization effect to online gambling and its effectiveness in people with gambling problems [Under review]. Retrieved from. <https://doi.org/10.31219/osf.io/m9kpe>
- Zhang, K., Rights, J., Deng, X., Lesch, T., & Clark, L. (2023, August 18). Within-session chasing of losses and wins in an online eCasino [Manuscript submitted for publication]. Retrieved from <https://doi.org/10.31219/osf.io/cf7ba>
- Zhang, K., Rights, J., Deng, X., Lesch, T., & Clark, L. (2023, May 24). Between-session chasing of losses and wins in an online eCasino [Under review]. Retrieved from osf.io/v87yk (PDF)
- Sidloski, B., Brooks, G., Zhang, K., & Clark, L. (2022). Exploring the association between loot boxes and problem gambling: are video gamers referring to loot boxes when they complete gambling screening tools?. *Addictive Behaviors*, 107318. <https://doi.org/10.1016/j.addbeh.2022.107318>

Limbrick-Oldfield, E. H., Chua, C., Cringle, N., MacDonald, K., Ferrari, M. A., Zhang, K., & Clark, L. (2022). Cashless gambling and the pain of paying: effects of monetary format on slot machine gambling. *Addiction Research & Theory*, 30(3), 220-230. <https://doi.org/10.1080/16066359.2021.2009465>

Zhang K., Clark L. (2020). Loss-chasing in gambling behaviour: neurocognitive and behavioural economic perspectives *Current Opinion in Behavioral Sciences*, 31, 1-7. <https://doi.org/10.1016/j.cobeha.2019.10.006>

Zhang, K., Szanto, K., Clark, L., & Dombrovski, A. Y. (2019). Behavioral empathy failures and suicidal behavior. *Behaviour research and therapy*, 120, 103329. <https://doi.org/10.1016/j.brat.2018.10.019>

Conference Presentations

Zhang, K. (2022, November). *An online gambling intervention using the realization effect*. Talk at Lisbon Addictions.

Zhang, K. (2022, June). *Between session loss chasing in the digital world*. Talk at DMCBH Research Retreat.

Zhang, K. (2022, March). *An online gambling intervention using the realization effect*. Poster presented at New Horizons in Responsible Gambling Conference, Online.

Zhang, K. (2022, February). *An online gambling intervention using the realization effect*. Poster presented at The Society for Judgment and Decision Making, Online.

Zhang, K. (2021, November). *The realization effect is fragile in gamblers*. Poster presented at BIG Difference BC 2021, Vancouver, BC, Canada.

Zhang, K. (2021, March). *Expressions of Chasing in the eCasino - BCLC PlayNow Data*. Talk presented at New Horizons in Responsible Gambling Conference, Vancouver, BC, Canada.

Zhang, K. (2020, April). I planned to speak at the 2020 Discovery (Responsible Gambling Council) Conference, however, it is canceled due to COVID-19.

Zhang, K. (2018, February). *The effect of presentation of feedbacks on loss aversion in risky decisions*. Poster presented at New Horizons in Responsible Gambling Conference, Vancouver, BC, Canada

Zhang, K. (2017, November). *The effect of presentation of feedbacks on loss aversion in risky decisions*. Poster presented at The Society for Judgment and Decision Making Conference, Vancouver, BC.

Zhang, K. (2017, October). *The effect of outcome delivery presentation on loss aversion in risky decisions*. Poster presented at 18th Annual NCRG Conference on Gambling and Addiction, Las Vegas, NV.

Zhang, K. (2017). *Loss Aversion in Gambling Disorder: a Systematic Review*. Poster presented at New Horizons in Responsible Gambling Conference, Vancouver, BC, Canada.

Zhang, K. (2013). *Priming effect on perception of attractiveness*. Poster presented at 17th Annual Psychology Undergraduate Statistics Conference, Vancouver, BC, Canada.

Research Experience

Sep 2016 – May 2023

Graduate Student Researcher in Centre for Gambling Research
Department of Psychology, UBC

Mar 2018 – Aug 2018

Research Assistant for Dr. Katalin Szanto & Dr. Alexandre Dombrovski
Department of Psychiatry, University of Pittsburgh

Sep 2015 – Apr 2016	Research Assistant for Dr. Lawrence Ward & Dr. Ilan Vertinsky Department of Psychology & Sauder Business School, UBC
July 2013 – Feb 2016	Research Assistant in Brain, Attention, & Research Lab, UBC Department of Psychology, UBC
July 2013 – Apr 2015	Research Assistant in Cognitive Neuroscience of Schizophrenia Lab Department of Psychiatry, UBC

Professional Experience

Aug 2022 – Present	Consultant , Responsible Gambling Council, Toronto
May 2021 – Oct 2022	Data Scientist , Data Science Institution, UBC <u>Creating user-friendly access to property-based information in BC</u>
Jan 2021 – May 2022	Teaching Fellow , Department of Psychology, UBC Course: Analysis of Behavioural and Neuroscientific Data – Introduction to R
Jan 2018 – Dec 2020	Teaching Assistant , Department of Psychology, UBC Course: Cognitive Processes
Sep 2017 – Dec 2017	Course: Introduction to Developmental, Social, Personality, and Clinical Psychology
Jan 2017 – Apr 2017	Course: Introduction to Biological and Cognitive Psychology
Sep 2016 – Dec 2016	Course: Introduction to Biological and Cognitive Psychology
Mar 2018	Guest Lecturer , Department of Psychology UBC Title: Irrational decision-making in Cognitive Processes
Oct 2014 – Apr 2015	Senior Mentor , UBC Tri-mentoring program

Mentorship Experience

2022	1 Undergraduate research assistants
2020	2 Undergraduate research assistants
2019	1 Undergraduate research assistant
2017	1 Undergraduate research assistant
2014	1 Junior undergraduate fellow student

Community Service

Sep 2019 – May 2023	Website Editor , Psychology Graduate Student Council, UBC
Sep 2019 – Dec 2022	Committee Member , UBC Wellbeing Committee
Sep 2020 – May 2022	Organizer , Departmental Cognitive Area Workshop

Sep 2019 – Nov 2021	Student Host , Departmental Colloquium Committee
Jan 2019 – Jan 2020	Media Coordinator , Women in Data Vancouver, BC
Dec 2017 – Feb 2018	Finance , Graduate student recruitment committee
2016	Volunteer Organizer for conference organization, NorthWest Cognition and Memory Conference 2016.

Professional Training

Sep 2017	Instructional Skills Workshop
July 2013	Tri-Council Policy Statement: Ethical Conduct for Research

Scholarship and Awards

July 2023	Dr. Durand Jacobs Dissertation Award, The National Council on Problem Gambling (NCPG)
Sep 2021 – Apr 2023	President's Academic Excellence Initiative PhD Award
Sep 2016 – Apr 2023	International Tuition Award
Sep 2016 – Apr 2022	Faculty of Arts Graduate Award
Sep 2021 – Apr 2022	Graduate Fellowship in Gambling Research
Sep 2011	President's Entrance Scholarship

Professional Associations

National Council on Problem Gambling
Society of Judgement and Decision-making
Psi Chi The International Honor Society in Psychology

Skills

Programming: Python, R, SQL, SPSS, STATA, HTML
Research methods: Experiment design, Focus group, Interviews, Secondary data analysis
Data analysis: Regressions, Classification, Statistics, GIS, Machine Learning, ANOVA, t-test, MLM
Data visualization: ggplot2, Plotly, Matplotlib, Folium, Adobe Illustrator
Survey tools: Qualtrics, Amazon MTurk, Prolific
Other tools: Azure, Git, GitHub, GitLab, Bash, Excel