Haoran Shi

Lillian Knowlas House, London | Haoran.shi@outlook.com | +44 (0)7422512560

OBJECTIVE

I am currently a PhD candidate in LSE's Department of Psychological and Behavioral Science, where I am pursuing my passion for studying the intersection of human cognition, political behavior, and empirical analysis. My research focuses on developing and testing behavioral interventions aimed at reducing social cleavages and partisan conflict, with the ultimate goal of creating a more sustainable and harmonious social and political environment. In my MSc dissertation, I investigated the effectiveness of short-term behavioral interventions in promoting self-interested decisions and explored ways in which these interventions could be utilized for positive outcomes. I am currently seeking relevant part-time opportunities (up to 20 hours per week on T4 visa) to complement my research and teaching experience. With my background as a teacher and data analyst, I am well-suited for both remote and London-based teaching and research roles.

EDUCATION

London School of Economic and Political Science   London, UK
PhD in Behavioral Science;   Sep 2022 - Sep 2026

- Thesis: "Exploratory and Empirical Investigation into Antecedents and Interventions for Partisan Polarization"; 1st supervisor: Dr Dario Krpan; 2nd Supervisor: Professor Liam Delaney
- Research method: Systematic review; Lasso regression/Deep learning/KNN with R/Python on secondary panel dataset; RCT

London School of Economic and Political Science   London, UK
MSc Behavioural Science;   Sep 2021 - Sep 2022

- Courses taken: Social influence in promoting health; use and ethics of hyper-nudges; casual inference in social science.
- Dissertation: "The impact of limiting physical capacity and mental perception of free will on dark pattern choice and post-choice satisfaction"; supervisor: Dr Stuart Mills
- Research & analysis method: RCT with factorial design; multiple & logistic regression; structural equation modelling for moderated mediation analysis
- Used tools: Python (pandas, numpy, pingouin), R (tidyverse, base r), SPSS, STATA, Qualtrics

University of Durham   Durham, UK
BSc Psychology   Sep 2018 - Sep 2021

- Courses taken: Functional localization and dysfunction; unconscious bias and social identity theory; cultural difference; aging and well-being.
- Dissertation: "Differentiating executive improvement in young adults induced by exposure to distinct categories of the video game"; Supervisor: Dr Ulrick Beierholm
- Research & analysis method: ANOVA with post-hoc Mann-Whitney; Kruskal-Wallis test; correlational analysis; psychometric reporting for executive function
- Used & learnt tools: Python (pandas, numpy, pingouin), SPSS, Qualtrics, PsychToolKit

RESEARCH EXPERIENCE

Systematic Review and Meta-analysis of the Effect of Relational Agent on Loneliness   London, UK
Co-Author, Primary Researcher: Sia Sha   Sep 2022 – Present

- Screened a total of 636 records based on their titles and abstracts, followed by a thorough full-text review of 70 publications using Covidence.
- Conducted data extraction and quality assessment of studies using the RoB 2 tool for randomized controlled trials (RCTs) and ROBINS-I for non-randomized studies of interventions (NSRI).
- Provided comprehensive feedback on the manuscript for submission to Lancet Digital Health, with a focus on improving the clarity and coherence of the analysis and conclusions.

Applying Gamification to Mobile and Remote Habit-Forming Interventions   London, UK
Leading Researcher, Overcome.org.uk   Jul 2021 – Dec 2022

- Developed a framework consisting of 5 essential gamification features that are suitable for mobile habit-forming interventions.
- Conducted a narrative review to evaluate the effectiveness of virtual currency, narratives, customizable avatars, and social community for cooperation in promoting compliance both empirically and theoretically.
- Organized bi-weekly team reports to assess the practicality of delivering gamification to remote interventions.

Systematic Review on Dark Pattern Literature   London, UK
Research Assistant, LSE, Supersivor: Dr Stuart Mills   Oct 2021 - Jan 2022

- Conducted critical reviews on the effect of Dark Pattern in political polarisation and gamified addiction, synthesizing and summarizing the methodology, findings and implications of relevant studies.
- Assisted in the identified and development of common themes from the literature, as well as a taxonomy of Dark Patterns in Behavioral Science.

Media Multitasking, Risk-Taking Tendency and Executive Function in Young Adults London, UK

*Research Assistant, British Psychological Society, Supervisor: Dr Blossom Fernandes*Jul 2020 - Nov 2020

- Received a research grant of GBP 2160 to conduct a study investigating the effect of media multitasking on risk-taking tendency
- Facilitated in designing the scope of the study and developed 5 cognitive measurements on Qualtrics.
- Recruited over 120 participants within a month by leveraging social media advertisement and university participant pool.
- Independently cleaned and analyzed the dataset of 91 participants using Python and SPSS and found that adults' inhibition moderates the extent of negative influence media multitasking has on their risk-taking tendency.
- Ensured the accuracy and reliability of the findings by utilizing effective research methods and tools, such as citation management software Zotero.
- Produced high-quality written reports and posters, presenting the findings in a clear, concise, and organized manner suitable for academic audiences.

TEACHING EXPERIENCE
LSE MY451 London, UK

*Graduate Teaching Assistant*Sep 2022 - Present

- Facilitated four weekly seminars with a total of 46 students, covering introductory inferential statistics using R for students with no prior experience.
- Covered the following topics: Descriptive statistics, chi-square test, one/two-sample t-test, correlation and inference with linear regression, and interpretation of box/bar-plots and histograms using R.
- Provided guidance and support to students throughout the course, ensuring their understanding of the material and their ability to apply the concepts to real-world scenarios.
- Designed and implemented lesson plans and activities that were engaging and effective in promoting students' learning and comprehension.
- Evaluated students' progress through quizzes and problem-sets, providing feedback to help them improve their skills and knowledge.
- Created a supportive and collaborative learning environment, encouraging students to work together and ask questions to deepen their understanding.

ClassBro (www.classbro.com) Online

*1-to-1 Tutor*April 2022 – Feb 2023

- Conducted weekly tutoring sessions for undergraduate students on the methodology and social-cognitive psychology courses
- Taught a range of topics in cognitive psychology, including the mind-body problem, memory and retrieval practice, neuron structure and localization, psychophysics, visual representation, and personality theories
- Taught concepts in social psychology such as social identity, learning theory, attribution styles, conformity, and attitude change
- Introduced students to experimental methods, including RCTs, internal and external validity, and ethical considerations in experimental design
- Taught statistical inference, including parametric and non-parametric tests, simple t-tests, ANOVA, and simple linear regression
- Explained sampling methods, including probabilistic and non-probabilistic sampling, and how to calculate sample size for statistical power.

Diligence & Delight Learning Center Beijing, China

*Course Organizer & Coordinator*Aug 2020 - Dec 2020

- Organized and managed weekly online classes by communicating with teachers and learning center staff in advance to ensure classes were conducted on schedule.
- Monitored and recorded the online performance and assignment grades of over 12 students across 10 sessions.
- Provided constructive feedback to students on workload management and to teachers on communication strategies.
- Ensured all course materials were uploaded and easily accessible to students and parents.

PUBLICATIONS
- Narrative review on gamification to help forming habits and improve well-being; accessible at http://bit.ly/3IW5Jn5.
- Theoretical framework and empirical proposition for conflict resolution at workspace; accessible at https://bit.ly/3ICfntE, pending publication on LSE PBS blog (http://bit.ly/3SuE5AY).
- Chinese Publications in association with China Psychology Student Association:
    o Featured Article, "今日知识点：我们是如何做决定的呢？" ("How do we make decisions?"); Accessible at https://bit.ly/3Zjd46b.
    o "今日知识点：我们真的常常言行一致吗？" ("Is our attitude and actions always consistent?"); Accessible at https://bit.ly/3y5qMh1.
    o "今日知识点：我们如何决定我们想知道什么" ("How do we decide what we want to know?"); Accessible at https://bit.ly/3KTCnHx.

WORKING PAPERS
- Systematic review on the antecedents of partisan polarization; Protocol registered at https://bit.ly/3XABOpn

- Systematic review and meta-analysis of the effect of relational agent on loneliness; Protocol registered at https://bit.ly/3XYJRfi.

CONFERENCE
- British Psychological Society Annual Conference, 2021
- Habitual Ethics? by Alan Turing Institute, 2022

ACTIVIES & SERVICE

LSE Department of Behavioural and Psychological Science Mentor Programme   London, UK
Mentor   Mar 2022 – Sep 2022
- Scheduled and conducted weekly one-on-one sessions with undergraduate students to discuss their academic progress and career goals.
- Helped students draft a career and ability mindmap to better understand their capabilities and find inspiration for their career goals.

UCL China Psychology Student Association   London, UK
Psychological Review Writer   Oct 2021 - Present
- Developed and wrote numerous articles focused on promoting the awareness of the latest psychological research
- Researched and synthesized complex psychological concepts into clear and concise articles for a student audience
- Collaborated with other writers and editors to ensure articles were accurate, engaging, and met publication deadlines
- Worked closely with the Association's executive team to determine article topics and themes based on current trends and developments in the field of psychology
- Contributed to the growth and success of the Association by providing valuable and informative content for its members and followers

LSE China Development Society   London, UK
Event Sector Member   Oct 2021 – Sep 2022
- Successfully organized the highly-attended Bridge Minded Synopsis event on "Chinese Culture and Identity in Film", which featured expert speakers and attracted online viewers from multiple universities across London.
- Demonstrated strong event planning skills and ability to engage diverse audiences on topics related to cultural identity and representation.

SKILLS

Experimental Design
As an experienced researcher and experimental designer, I have conducted multiple randomized controlled trials (RCTs) using a variety of research tools, including Gorilla, Qualtrics (JavaScript), and PsychToolKit. I have also recruited participants through various channels, including in-person and online using platforms like Prolific and university participant pools. Throughout the entire experimental process, I have been dedicated to ensuring accuracy and reliability in the results obtained, including the management of experimental design, implementation, and data analysis. As a result, I have developed a deep understanding of experimental methodology and statistical analysis, and have the ability to effectively communicate the results to academic audiences.

Statistical Analysis
I have developed advanced statistical analysis skills and am highly proficient in using a range of statistical models and methods to analyze data. I have expertise in conducting OLS, logistic, and polynomial regression analyses, as well as two-way ANOVA and mediated moderation analysis. Additionally, I am well-versed in statistical software such as SPSS and STATA, and have extensive experience using these tools to conduct statistical analyses.

Programming & Visualization
I am skilled in organizing and manipulating large and complex datasets using Python, ensuring that they are presented in an organized format. Additionally, I am proficient in creating visually appealing figures that effectively communicate complex information using the seaborn package, making them suitable for use in scientific reports and public presentations.

Written Communication
I have a strong track record in academic writing, including drafting policy white papers focused on promoting diversity in academic careers and improving workplace well-being. Additionally, I have consistently achieved high scores on written academic work, including earning a pass with no revisions on my PhD report, as well as excellent scores on both my 10,000-word MSc dissertation and my 6,000-word BSc dissertation.

Oral Communication
As an accomplished academic, I possess strong oral communication skills and have successfully communicated research findings and methodology to both professional and non-professional audiences. Using tools such as PowerPoint slides and posters, I have been able to clearly articulate complex information in a way that is easy to understand for diverse audiences. With my strong presentation skills, I have been able to effectively engage and ensuring that they leave with a thorough understanding of the research topic.

Project management

As an experienced team supervisor, I have successfully led teams of 2 to 10 individuals for academic and for-profit projects. I have been responsible for setting deadlines, managing workloads, and organizing meetings using efficient communication tools such as MatterMost, SharePoint, and Zoom. My strong project management skills have enabled me to ensure timely and effective delivery of project outcomes, and my ability to coordinate teams with diverse backgrounds and skill sets has resulted in successful collaborations and outcomes