

# Jiahao Zhu

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## Education

### Radboud University

*M.Sc. in Behavioral Science (Research Master)*

GPA 9.5/10, Summa Cum Laude

*Nijmegen, Netherlands*

*Sept 2024 – July 2026*

- **Thesis:** No Turning Point: Tracking Convergent Validity Across 84 Trials of the Hot Columbia Card Task (Grade: 10/10)
- **Key training:** Behavioral Decision Making, Programming (Python), Advanced Statistics (Mixed-Effects Models, Structural Equation Modeling), Complexity Methods

### Sun Yat-sen University

*Graduate studies in Management Science and Engineering (degree not completed)*

GPA: 3.8/4, Top 5%

*Guangzhou, China*

*Sept 2022 – Mar 2024*

- **Key training:** Affective Decision-Making, Network Modeling, Natural Language Processing

### Sun Yat-sen University

*B.A. in Business Administration*

GPA: 3.9/4, Top 5%

*Guangzhou, China*

*Sept 2018 – June 2022*

- **Thesis:** Emotional Expression and Market Performance: A Network Perspective (Outstanding Thesis)
- **Key training:** Econometrics, Consumer Behavior, Game Theory, Economics

## Publications

### Between-session chasing via time of return in online eCasino gambling

2026

Banerjee, N., Noël, X., *Zhu, J.*, Chen, Z.

*Journal of Behavioral Addictions.* [10.1556/2006.2025.00454](https://doi.org/10.1556/2006.2025.00454)

**Contribution:** Assisted with extracting generalized linear regression residuals for the ordinal variable in the main analysis and checking residual autocorrelation.

## Research Experience

### Graduate Researcher (Master's Thesis)

*Radboud University*

*Nijmegen, Netherlands*

*Sept 2025 – June 2026*

Project: Modeling Within-Task Dynamics in Behavioral Measures of Risk-Taking (Supervised by Dr. Bernd Figner and Dr. Zhang Chen)

- Challenged the prevailing psychometric assumption of risk-taking as a static trait. Conceptualized risk-taking as a dynamic latent state that evolves across trials within a task.
- Analyzed large-scale sequential decision-making data ( $N = 1,507$ ) from the Basel-Berlin Risk Study. Employed hierarchical Bayesian estimation, sequential Monte Carlo (Particle Filter) for dynamic state tracking, and Generalized Additive Mixed Models for time-series modeling.
- Independently programmed the complete computational pipeline in R and Stan. Conducted model validation via simulation-based parameter recovery and mixed-effects Bayes Factors analysis. Authored a comprehensive preregistration on OSF.

### Research Project Co-Lead

*Radboud University*

*Nijmegen, Netherlands*

*Nov 2024 – June 2025*

Project: Investigating Automatic and Motivational Avoidance in Academic Worry (Supervised by Prof. Mike Rinck and Konrad Schweizer)

- Investigated whether clinical models of anxiety generalize to subclinical academic worry by testing if trait worry elicits automatic and deliberate avoidance behaviors toward personalized visual stimuli.
- Collected and analyzed behavioral and physiological data from university students ( $N = 21$ ). Employed Generalized Linear Mixed-Effects Models.
- Engineered the full experimental paradigm in PsychoPy. Determined sample size through simulation-based power analysis using existing meta-analysis results.

## Research Project Lead

*Sun Yat-sen University*

*Guangzhou, China*

*Sept 2022 – May 2024*

Project: Unveiling the Effect of Emotional Co-Expressions: A Network Perspective (Supervised by Prof. Zengxiang Chen)

- Proposed a novel Emotional Co-expression Network framework to quantify the structural properties of emotional expression in text.
- Analyzed 53,000+ crowdfunding project descriptions. Employed Natural Language Processing, network analysis, and fixed-effects models.
- Built the complete NLP and text-mining pipeline in Python. Programmed custom algorithms to construct project-level networks in R.

## Research Collaborator

*University of International Business and Economics*

*Beijing, China*

*Jan 2023 – Jan 2024*

Project: The Effect of Brand Warmth and Competence: A Meta-Analysis (Worked with Dr. Chenming Peng and Prof. Zengxiang Chen)

- Constructed a dataset by screening over 17,000 articles and coding 1,201 effect sizes from 587 studies. Employed mixed-effects models and meta-regression.
- Mitigated publication bias by integrating unpublished literature. Engineered a custom Excel VBA tool to automate the literature screening phase.

## Academic Activities

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### Organizer & Presenter (Workshop on Causal Inference), Sun Yat-sen University

*Guangzhou, China*

*Sept 2023 – Jan 2024*

- Initiated and led a weekly methodological workshop focusing on Directed Acyclic Graphs and their applications in psychology research.

### Selected Participant (Complexity Interactive Workshop), Santa Fe Institute

*Santa Fe, USA (online)*

*Oct 2023*

- Engaged in advanced training on complexity science. Co-developed an Agent-Based Model simulating group identity formation.

### Teaching Assistant (Econometrics, Consumer Behavior), Sun Yat-sen University

*Guangzhou, China*

*Sept 2020 – June 2022*

- Facilitated laboratory sessions on statistical programming (Stata/R) and quantitative methods.

## Honors and Awards

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**National Postgraduate Scholarship (2023):** 20,000 CNY, Ministry of Education, China

**Outstanding Undergraduate Thesis (2022):** Sun Yat-sen University

**Outstanding Undergraduate Scholarship (2019-2022):** 7,000 CNY, SYSU

**National Undergraduate Academic Innovation Program (2020):** 20,000 CNY, Ministry of Education, China

## Skills

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**Computational Modeling & Statistics:** Hierarchical Bayesian Modeling (Stan), Sequential Monte Carlo, Mixed-Effects Models, Causal Inference, Structural Equation Models, Network Analysis.

**Programming & Data Science:** R (Advanced), Python, Web Scraping, NLP, Machine Learning, Git.

**Experimental Engineering:** PsychoPY, Adaptive Experiment Design, Joystick-based Input.

**Language:** English (IELTS 7.5, C1 equivalent), Mandarin (Native).