Cai Zhenxin

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Nanjing, Jiangsu, China

Objective

Seeking a PhD position in cognitive science or psychology with a focus on cognitive modeling and decision-making. Research interests include Self-Prioritization Effect (SPE), Drift Diffusion Model (DDM), and Bayesian modeling. Open to research assistant positions.

Research Experience

- **Self-Prioritization Effect Database (SPE_Database)**, Hu Lab — Jan 2024 – Present
  - Built a FAIR-compliant, trial-level cognitive database integrating multi-country datasets
  - Developed automated pipelines for preprocessing, modeling, and reproducibility
  - Conducted DDM and Bayesian hierarchical modeling
  - Led manuscript writing and coordinated data-sharing collaborations
- **Effect of Social Distance on Fairness Preference** — Apr 2023 – Nov 2023
  - Designed Ultimatum Game experiment using E-Prime (3×5 design)
  - Analyzed behavioral decision-making using SPSS
  - Led full research workflow from design to writing
- **Positive Psychology and Self-Efficacy Study** — Mar 2023 – Mar 2024
  - Conducted large-scale survey data collection
  - Performed statistical analysis on gender and grade differences
- **Involution and Career Values Study** — Apr 2022 – Dec 2022
  - Developed questionnaires and conducted mediation analysis (SPSS, AMOS)
  - Investigated psychological mechanisms of self-efficacy

Projects

- **SPE Database Project**
  GitHub Link
  - Developed standardized cognitive dataset for reproducible research
  - Implemented Bayesian and DDM modeling pipelines
- **Ultimatum Game Experiment**
  GitHub Link
  - Studied fairness decisions under varying social distance

Education

- **Nanjing Normal University** — Sep 2024 – Present
  M.S. in Psychology
- **Qinghai Minzu University** — Sep 2020 – Jun 2024
  B.S. in Applied Psychology
  Rank: 1/38
  CET-4: 485 CET-6: 471

Skills

- Programming: Python, R, MATLAB
- Methods: DDM, Bayesian Modeling, Mediation Analysis, Statistical Modeling
- Tools: SPSS, AMOS, JASP, PsychoPy, E-Prime, jsPsych, Git, Opencode

Teaching Experience

- Bayesian Statistics in Psychology (TA), Nanjing Normal University 2025
  - Prepared Python-based teaching materials and supported graduate students

Honors and Awards

- National English Competition (3rd Prize)
- National Computer Level-2 Certificate (Python)
- Multiple Provincial and University-Level Academic Awards

Additional Information

Languages: Chinese (Native), English (Intermediate)
Interests: Cognitive science, programming, web development, gaming