Yuexuan Li

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Education

University of Birmingham, MSc in Computational Neuroscience and Cognitive Robotics — Sep 2022 - Dec 2023

Courses: Methods & Applications of Cognitive Neuroscience, Mind, Brain & Models, Computational Methods, Electrophysiological Methods in Cognitive Neuroscience (FFT, MNE, Evoked Potentials, Spectral Analysis, Source Modeling).

Xi'an University of Architecture and Technology, Bachelor of Science in Computer Science and Technology — Sep 2018 - Jul 2022

Courses: Fundamentals of JAVA Programming, Python, Database Systems, C++ Software Development, Web Application Development, Agile Development.

Self-Assessment:

Solid software testing experience, proficient in functional verification, user scenario testing and cross-platform coordination. Balanced attention to detail and holistic perspective; excel at driving product optimization via data analysis and user feedback. Strong cross-departmental communication skills to efficiently collaborate on product requirement delivery and process improvement.

Work Experience

Beijing Longway Computer Application Technology Development Co., Ltd., Taikang Group Email Task Sorting Platform, Test Engineer — Jun 2024 – Present

- **Full-Chain Automated Testing:** Design and execute 17 end-to-end test cases covering the full business chain (email sending/receiving → intelligent sorting → task generation/flow), ensuring stable and accurate task allocation via automated testing.
- **Data-Driven Testing:** Implement data-driven testing with CSV parameterization and Python scripts, enhancing test data diversity/coverage while reducing manual intervention and improving efficiency.
- **Deep Database Verification:** Verify interface-database data consistency through real-time comparison, boosting system reliability and data integrity.
- **Application of Advanced Testing Tools:** Leverage JMeter's advanced features (JSON extraction, Groovy scripting, dynamic assertions) to improve performance testing and interface verification precision for high-concurrency stability.
- **Automated Operation / Maintenance & Data Analysis:** Develop Python scripts for batch data repair, analysis and report generation, enhancing automated operation and maintenance capabilities, reducing workload, and improving system stability.
- **Performance Testing & Monitoring:** Establish interface performance benchmarks, conduct concurrent stress testing and response time tracking, analyze and optimize performance bottlenecks to ensure high-concurrency stability and response speed.
- **Cross-Departmental Collaboration & Process Optimization:** Collaborate closely with product, development and operation teams to propose process optimization suggestions by deducing user scenarios and abnormal flows, ensuring smooth full-process operation.

Project Experience

Brain Attention Control Mechanisms in Individuals with High Autistic Traits, Project Lead — Nov 2022 - Aug 2023

- Used visual search T-task paradigm to simulate target selection and distraction inhibition under high-similarity/high-salience distractors in complex visual scenes.
- Built Attentional Drift Diffusion Model (ADDM) via MATLAB and Bayesian DE-MCMC, fitting reaction times of different AQ Score groups to separate attention selection/stimulus recognition features and extract cognitive parameters (IOR, NDT, selection rate V, etc.).
- Integrated psychological indicators (e.g., Intolerance of Uncertainty Scale) to analyze strategy preferences in high-anxiety groups, revealing correlations between attention mechanisms and individual differences.

Interactive Music Therapy Device Based on BCI and Machine Learning, Project Member — Sep 2020 - Sep 2021

- Collected users' EEG data under varied music conditions via OpenBCI; analyzed correlations between EEG band activity and emotional states using ICA and FFT.
- Designed frequency-domain feature-based closed-loop control: music input → EEG collection → feature extraction & state assessment → dynamic music parameter adjustment (rhythm/harmony/volume) → EEG re-collection for validation.
- Utilized Raspberry Pi as hardware controller for real-time interaction between physiological signals and music output.
- Validated the system's effectiveness in inducing/maintaining relaxation via experiments (paired t-tests included); developed a transferable framework ("physiological signals → frequency-domain features → adaptive music") for emotion computing and human-computer interaction research.

Languages & Skills

Languages: Chinese (Native), English (Proficient, IELTS: 6.0, CET-6)

Technical Skills: Proficient in Microsoft Office, Python, MATLAB, JAVA, SQL.

Interest: Reading, Rock Climbing, Photography.