

KEREN ZHANG

Duluth, GA • kzhang1@ggc.edu • 404-984-5878 • <https://github.com/OceanDoggie>

Curious, systems-minded sophomore blending qualitative & quantitative research with hands-on prototyping.

EDUCATION

Hubei University — Coursework toward B.S. in Psychology

Sep 2023 – November 2023, Wuhan, China

Georgia Gwinnett College (GGC) — Bachelor of Science, IT: Data Science (Sophomore)

Spring 2024 – Present, Lawrenceville, GA

SKILLS

Research: Qualitative coding (NVivo); interview protocol design; survey design; mixed-methods synthesis (in progress).

Data / Quant: Excel/Google Sheets; Python; R; Java; basic statistics (t-test, chi-square, correlation/regression).

Product & Prototyping (exploring): PRD basics; MVP scoping; simple user flows/wireframes; usability study planning (intro).

Tools: Microsoft Word, PowerPoint, Excel; Canva; mind-mapping; video editing; VS code

Languages: English; Chinese (native).

RESEARCH EXPERIENCE

Workplace Bullying in Higher-Education Health Sciences — Qualitative Research

- Health Science Department, GGC | Nov 2024 – Apr 2025
- Designed a grounded-theory codebook and self-taught NVivo to analyze 18+ interviews and field notes
- Identified recurring themes (power dynamics, reporting friction, psychological safety) that informed faculty policy discussions
- Delivered a 29-page synthesis with exemplar quotes and “opportunity areas,” later referenced in departmental training proposals

Workplace Bullying Study — Quantitative Continuation

Health Science Department, GGC — Aug 2025 – Present

- Translating qualitative themes into a draft survey instrument .
- Designing analysis plan; setting up code templates in Python/R for descriptive stats and simple tests (to run after data collection).
- Preparing visual results brief and IRB/ethics docs as needed.

PROJECTS

- AI Pose Coach — Product Concept & MVP Exploration (Founder/Researcher) | Aug 2025 – Present
 - Authored PRD-style concept doc defining user flows, success metrics, and MVP scope
 - Built concept whitepaper & system spec; extracted pose guidance patterns from 50+ tutorials (Xiaohongshu/Instagram)
 - Developing low-code MVP demo with usage analytics; public README & one-pager targeted for Sep 2025 release
- Gesture Control — ASL Hand-Recognition Learning Tool (Technology Ambassador Program: Group Project) | Aug 2025 – Present
 - Originated concept based on prior AI Pose Coach work; collaborated with team to design real-time ASL learning app
 - Built dataset curation pipeline, defined prototype evaluation criteria, and led error-analysis loop for model iteration
 - Integrated MediaPipe for hand detection; designed 3D model feedback system to teach hand shapes
 - Preparing 3 classroom workshops (Oct 2025, 30–40 students each) to teach AI recognition concepts and demo the tool.
 - Presenting project at TAP Expo.

PUBLICATIONS & REPORTS

Workplace Bullying in Higher-Education Health Sciences — Qualitative Report (30 pages)

Author, May 2025 | Archived at GGC Health Science Department | Available upon request

- Synthesized 14 interviews into themes on power dynamics & reporting friction
- Proposed “opportunity areas” for faculty training & policy interventions

Other Experience

- Summer Volunteer, Master Furniture LLC — Warehouse & Ops | Summer 2023
- Supported order processing, inventory tracking, and weekly reconciliation to ensure smooth operations
- Communicated with customers to resolve inquiries and maintain service quality
- Fitness Attendant & Membership Services — Wellness & Recreation Center, GGC | Nov 2024 – Present
- Provide front-desk membership services and daily operations support
- Monitor equipment usage and enforce safety/cleanliness standards to enhance user experience

• **SELECTED ACHIEVEMENTS**

- Self-taught NVivo to code and deliver a qualitative dataset within one semester
- Bridged psychology, data analysis, and software development into a human-centered, evidence-based product mindset