Yihe Wang

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Research Interests

Computational Social Science, Human-Computer Interaction, Natural Language Processing

Education

Tsinghua University **Sep 2022 - Present**
B.E. in Computer Science and Technology *GPA:3.93/4.00*

University of California, Los Angeles **Jan 2025 - Jun 2025**
Study Abroad Exchange Program in Sociology

Publication

[1] Xueyang Wang*, Sheng Zhao*, **Yihe Wang**, Ziyu Han, Xinge Liu, Xin Yi, Xin Tong, Hewu Li. Raise Your Eyebrows Higher: Facilitating Emotional Communication in Social Virtual Reality Through Region-Specific Facial Expression Scaling. (CHI 2025)

Research Experiences

Social AI Lab, Carnegie Mellon University **Jul 2025 – Present**
Advised by Professors Haiyi Zhu, Sherry Tongshuang Wu, Robert Kraut, and Paul Pu Liang

- Developed a multimodal Virtual Patient for psychotherapy training by deriving a taxonomy of clinically relevant paraverbal cues (e.g., pause types, vocal tension, hesitations) from session recordings, literature, and expert interviews, and integrating them into lifelike vocal delivery to reveal affective and relational states beyond text content.
- Enhanced trainees' awareness of subtle paraverbal signals and strengthened their detection of the Virtual Patient's emotional and relational states, surpassing transcript-only baselines in interpretive accuracy.

PLUS Lab, University of California, Los Angeles **Jan 2025 – Jun 2025**
Advised by Prof. Nanyun (Violet) Peng

- Fine-tuned open-source LLMs (e.g., LLaMA, Qwen) on diverse reasoning datasets—including math (GSM8K, MATH500), logic, and counterfactual "uncommon sense" corpora—using SFT, DPO, and KTO. Evaluated gains in mathematical performance and examined transfer effects on story generation.
- Led human evaluation of story outputs across narrative complexity, empathy, emotional evocativeness, etc.; built an automatic evaluator aligned with human judgment for scalable, high-fidelity assessment of psychological depth.

Department of Information Science, Cornell University **Oct 2024 – Present**
Advised by Prof. Yian Yin *Remote*

- Used the release of ChatGPT as a benchmark to assess the prevalence and evolution of hallucinated citations generated by large language models across scientific disciplines.
- Conducted citation analysis on a 1M+ corpus spanning arXiv, bioRxiv, and PMC by extracting references and cross-matching them with source documents. Linked mismatches to multi-level metadata—including author profiles, paper publication status, and field—to analyze variations by seniority, institution type, and publication history.

McCombs School of Business, the University of Texas at Austin **May 2024 – Sep 2024**
Co-advised by Prof. Yan Leng and Prof. Yuan Yuan *Remote*

- Investigated the decision-making processes of mainstream LLMs in game-theoretic settings, tracing intermediate thought paths and linking them to final choices under varied payoff structures and group affiliations.
- Performed systematic classification and modeling of behavioral patterns, using regression and decision trees to show that as model capability increases, decisions exhibit stronger pro-social orientations across multiple dimensions.

Institute of Human-Computer Interaction, Tsinghua University **May 2023 – Apr 2024**
Advised by Prof. Xin Yi

- Designed and led user studies to analyze how different facial regions shape emotional contagion and uncanny-valley responses in VR social interactions, using semi-structured interviews and transcript analysis to derive qualitative insights.

Project

Genie News — Hear the World: An LLM-powered site for global perspectives **Oct 2024 – Dec 2024**

- Engineered an automated toolchain integrating news monitoring, web scraping, and event clustering to continuously track global news, and aggregate multi-source perspectives for LLM-based bias and framing analysis.

Technical Skills

Web Development: Django, FastAPI, Vue, JavaScript

LLM Expertise: LangChain, HuggingFace, vLLM, DSPy

Data & Infrastructure: NumPy, PyTorch, Pandas, Elasticsearch, Grobid

English Proficiency: TOEFL 114 (R30 + L30 + S25 + W29)