Lingyu Li
Curriculum Vitae

School of Medicine, Shanghai Jiao Tong University
South Chongqing Road 227, Shanghai, China, 200025
lilingyu1874@sjtu.edu.cn / lingyulipsy@gmail.com

Education

M.MedSc., Shanghai Jiao Tong University
  Major area: Psychiatry
  Thesis: Prediction of Suicidal Ideation utilizing computational models   2025 (Expected)
    based on free energy principle and deep learning
  GPA: 3.75/4.0

Bachelor of Medicine., Shanghai Jiao Tong University
  Major area: Clinical Medicine
  Thesis: Disorder of Objective Center: Psychopathology of Capgras   2022
    Delusion
  GPA: 3.20/4.0

Research Interests

Computational Cognitive Science and Bayesian Modeling

Digital twin mind through AI, Cognitive Science, and Philosophy

Manuscripts Under Review

Lingyu Li, Shuqi Kong, Haiquan Zhao, Chunbo Li, Yan Teng, Yingchun Wang (2024). *Chain of Risks Evaluation (CORE): a structured framework for safer large language models in public mental health*. Manuscript submitted for publication.

Haiquan Zhao, **Lingyu Li**, Shisong Chen, Shuqi Kong, Jiaan Wang, Kexin Huang, Tianle Gu, Yixu Wang, Jian Wang, Liang Dandan, Zhixu Li, Yan Teng, Yanghua Xiao, Yingchun Wang (2024). *ESC-Eval: Evaluating Emotion Support Conversations in Large Language Models*. Manuscript submitted for EMNLP 2024. https://arxiv.org/abs/2406.14952

Lingyu Li, and Chunbo Li. (2024). *A Computational Model of General Suicide Ideation*. https://doi.org/10.31234/osf.io/eg6zn.

Lingyu Li, and Chunbo Li. (2024). *Computational Modeling of Self-identification from Embodiment to Sociality*. Manuscript submitted for publication. https://arxiv.org/abs/2403.07664.

Lingyu Li, and Chunbo Li. (2023). *Return to Lacan: an approach to digital twin mind with free energy principle*. Manuscript submitted for publication. https://arxiv.org/abs/2309.06707

Lingyu Li, and Chunbo Li. (2023). *Schizophrenia research under the framework of predictive coding: body, language, and others*. Manuscript submitted for publication. https://arxiv.org/abs/2309.06772

Publications

Lingyu Li, Lin Cheng, Ri Sa, Xian Qiu, Libo Chen. (2022). *Real-world insights into the efficacy and safety of tyrosine kinase inhibitors against thyroid cancers*. Critical Reviews in Oncology/Hematology, 172, 103624.

Research Experience

Research Intern, Shanghai Artificial Intelligence Laboratory   2024 - 2025
> Dr. Yan Teng, Supervisor
> *Advancing the understanding of ethical large language models through the lens of cognitive science, philosophy, and psychology.*

Graduate Research Assistant, Shanghai Mental Health Center   2022 - 2025
> Prof. Chunbo Li, Supervisor
> *Mainly involved in two projects including (i) computational models of Lacan's Philosophy of human mind and corresponding models of psychopathology; (ii) multi-modal dataset of EEG, eye-tracking, fMRI, gaits, and voice for common mental disorders such as depression, anxiety, and schizophrenia.*

Research Intern, Shanghai Jiao Tong University   2020 - 2021
> Prof. Libo Chen, Supervisor
> *Crafting a systematic review on real-world studies of efficacy and safety of tyrosine kinase inhibitors against thyroid cancers.*

Undergraduate Research Assistant, Shanghai Jiao Tong University   2019 - 2020
> Prof. Hui Wang, Supervisor
> *Wet experiment such as DNA extraction from over 1k clinical blood samples of pregnant women & dry experiment (meta-analysis).*

Teaching Experience

Textbook Writing, Shanghai Jiao Tong University   Summer 2024
> *Summarizing professor's lecture content, compiling it into the textbook, responsible for the chapter on reinforcement learning in psychology and machine learning.*

Online Educational Content Creating, ZhiHu   2018-2019
> *Sharing problem-solving methods in the Gaokao mathematics exam, with over 2k followers.*

Skill

Python coding (computational modeling, neural networks, and data analysis)

Empirical research tools (EEG, eye-tracking, fMRI etc.)