

# **YANYI CHEN**

(848) 500-4538 | [yanyic@uchicago.edu](mailto:yanyic@uchicago.edu) | <https://github.com/ccyl227>

## **RESEARCH INTERESTS**

Computational Psychology, Decision Making, & Cognitive Science

## **EDUCATION**

### **University of Chicago | Chicago, IL**

**August 2025**

#### Master of Arts, Social Sciences; Concentration: Psychology - STEM

#### Certificate: Computational Social Science

Thesis: Gender Identity and Aesthetic Perception: Investigating Shared Product Evaluations Within and Across Gender Groups

Advisor: Dr. Daniel Albohn

Relevant Coursework: Machine Learning, Agent-Based Modeling, Managerial Decision Making

### **Rutgers University, The State University of New Jersey (RU) | New Brunswick, NJ**

**May 2024**

#### Bachelor of Arts, Psychology; Minors: Data Science & Cognitive Science

Capstone Project: Data Analysis and Visualization in R

Advisor: Dr. Tomasz Imielinski

Relevant Coursework: Cognition and Decision Making, Cognition

## **PAPERS & PRESENTATIONS**

### **Papers**

**Chen, Y.** *Gender Identity and Aesthetic Perception: Investigating Shared Product Evaluations Within and Across Gender Groups* [Unpublished manuscript]. Division of the Social Sciences, University of Chicago

Song, X., Wu, M., Zhu, K. Q., Zhang, C., & **Chen, Y.** (2025). A cognitive evaluation benchmark of image reasoning and description for large vision-language models. *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers)*, 6392–6409. <https://doi.org/10.18653/v1/2025.nacl-long.324>

Li, Z.\*., **Chen, Y\***., Li, C., Chen, S., Zhu, K.Q., Wu, M., Xie, D. *How to Break the Ice with Depressed Social Media Users: A Prerequisite of a Proactive Mental Health Chatbot* [Under review]. Department of Computer Science and Engineering, Shanghai Jiaotong University.

Chen, S., Ming, C., Zhang, Z., **Chen, Y.**, Zhu, K.Q., Wu, M. *Mixed Chain-of-Psychotherapies for Mental Health Support Chatbot* [Under review]. Department of Computer Science and Engineering, Shanghai Jiaotong University

### **Presentations**

**Chen, Y.** (2025, August 6). *Is Beauty Shared?* [Final Project Presentation]. Ipsos Micigrant Program Awardee Presentation, Chicago, IL.

**Chen, Y.** (2025, June 3). *Is Beauty Shared?* [Conference Presentation]. The 10th Annual MA Interdisciplinary Research Graduate Conference, Chicago, IL

## **RESEARCH EXPERIENCE**

### **Perception and Judgment Lab | University of Chicago | Chicago, IL**

**2024 - Present**

#### Research Assistant / Graduate Researcher – Dr. Alexander Todorov, Distinguished Service Professor of Behavioral Science.

Designed and conducted a quantitative study investigating how gender identity shapes aesthetic perception and consumer preferences toward product packaging.

- Created and distributed a Qualtrics questionnaire collecting open-ended judgments and quantitative ratings.
- Applied NLP, PCA, and mixed-effects modeling to analyze perceptual and social identity effects.
- Designed and conducted a quantitative study investigating how gender identity shapes aesthetic perception and consumer preferences toward product packaging.

### **Group of NLP in Mental Health | Shanghai Jiaotong University | Shanghai, CN**

**2023 - Present**

#### Research Assistant – Dr. Kenny Qili Zhu (Currently at UTA) & Dr. Mengyue Wu, Professors of Computer Science and Engineering.

#### A Cognitive Evaluation Benchmark of Image Reasoning and Description for Large Vision Language Models:

Reviewed literature on dementia image diagnosis, identified dataset limitations, and annotated new image materials to build a benchmark improving AI models' ability to interpret cognitive diagnostic imagery. Paper accepted at NAACL

2025.

### Mixed Chain-of-Psychotherapies for Mental Health Support Chatbot:

Reviewed literature on therapist–patient empathy strategies and translated them into prompt-based model tuning to improve emotional dialogue capabilities, contributing to the theoretical framing of the paper.

### How to Break the Ice with Depressed Social Media Users: A Prerequisite of a Proactive Mental Health Chatbot:

Developed and tested a pipeline for proactive engagement with depressed users on social media, designing and evaluating multiple response strategies across human and robot roles. Built a supporting user dataset and co-authored the interactive experiment section of the paper.

### **Cognitive Development Laboratory | Rutgers University | New Brunswick, NJ**

**2023 - 2024**

#### Research Assistant - Dr. Alan Leslie, Distinguished Professor of Psychology

Worked on projects examining how inhibitory demands affect children's performance on false-belief and related tasks, developing strong skills in experimental design, data analysis, and participant management.

- Designed and conducted behavioral experiments with 300+ child participants, creating stimuli and managing recruitment and scheduling.
- Collected, coded, and analyzed behavioral data using R and Excel, applying multiple and logistic regression as well as McNemar's test.
- Trained new research assistants and maintained laboratory data systems and materials.

## **RELEVANT COURSEWORK**

### **User Experience Research on Instagram and Fidelity Platforms | University of Chicago| Chicago, IL**

#### Course: UX Research Foundations & Exploratory Research Design (MAPSS)

- Conducted semi-structured interviews with platform users to gather insights on user engagement and platform usability.
- Analyzed qualitative data to identify user needs and provide actionable recommendations to improve platform design and user retention.
- Collaborated with team members to prepare a comprehensive report for platform stakeholders, emphasizing strategic improvements based on user feedback.

### **Organizational Behavior Study on Google Teams | University of Chicago| Chicago, IL**

#### Course: Managing in Organizations (Booth School of Business)

- Interviewed Google employees to identify current challenges within team dynamics and communication.
- Synthesized findings to propose evidence-based interventions aimed at enhancing team productivity and collaboration.
- Co-authored a final paper presenting research results and practical recommendations for organizational improvements.

## **PROFESSIONAL EXPERIENCE**

### **FlyClub Angels & Naoyun Technology | Shanghai, CN**

**June 2024 - August 2024**

#### Internship

- Prepared and organized the "SheShan Brain Valley" closed-door meeting, inviting over 23 entrepreneurs, investors, law firms, and others in the brain-machine interface field, including the town mayor. Completed a 2500-word, 5-hour meeting summary.
- Used in-ear EEG earbuds for measurements, collected open/closed eye paradigm data, and performed waveform analysis using MATLAB. Ran ASSR paradigm and other paradigms to ensure the reliability and validity.
- Collected and compiled financing and industry information related to brain-machine interface field, producing weekly update.

### **Shanghai Sixth People's Hospital | Shanghai, CN**

**June 2023 – August 2023**

#### Psychological Counselor Assistant (Intern, 40 working hrs.+/week)

- Guided group members (3-4) through structured scripts provided by consultants using psychodrama techniques such as role-playing, mirroring, and directing. Discovered self-advantages, self-support, supporting others, and identifying others' strengths to enhance self-esteem and empathy.
- Measured participants' heart rate and stress index using a pulse oximeter before and after group sessions, analyzed data, and found a significant reduction in abnormal heart rates (from 6-185 to below 5, within the normal range).
- Designed and distributed post-session questionnaires, with feedback indicating decreased depression levels after completing 12 sessions; many participants successfully returned to campus, improving self-awareness and self-support capabilities.

## **SERVICE & LEADERSHIP**

Student Member, American Psychological Association,  
Volunteer Teacher, Datieqiao Primary School

September 2024 – Present  
March 2021 – June 2021

## AWARDS & HONORS

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Ipsos Microgrant	2025
Midway Research Scholarship	2024
Matthew Leydt Society (top 2%)	2024
Phi Beta Kappa	2023 - Present
SAS Excellence Scholarship	2021 - 2024

## RELATED SKILLS

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- Research Skills: Research Design, Social Science Analysis Academic and Professional Writing
- Quantitative / Computational Knowledge: Data Wrangling and Management, Statistical Inference, Machine Learning, Natural Language Processing (NLP), Web Scraping, Cleaning & Coding, Data Visualization
- Technical: R, Python, Psychopy, Qualtrics, Tableau, Office 365 (Word, Excel, PowerPoint), LaTeX, MATLAB, Gorilla Experiment Builder
- Languages: English (Fluent), Mandarin (Native), German (Basic), French (Basic)

## REFERENCE

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- Dr. Alan Leslie, *Distinguished Professor of Psychology*, aleslie@ruccs.rutgers.edu  
Dr. Hannah Hamilton, *Assistant Instructional Professor of Psychology*, hhamilton@uchicago.edu  
Dr. Daniel Albohn, *Principle Researcher*, Daniel.Albohn@chicagobooth.edu  
Dr. Kenny Zhu, *Professor of Computer Science and Engineering*, kenny.zhu@uta.edu