

Caimiao (Cai) Liu

(805)-261-9646 | caimiao@outlook.com | BOX 97814, Durham, 27708, NC

Education

2020 - Present **Duke University** - B.A. Psychology; B.A. Sociology; Minor: Philosophy
Overall GPA: 4.0; Psychology GPA: 4.0
Thesis (Psychology): "*Cross-Cultural Differences in Love and Gratitude: A Comparison Between the U.S., China, and Chile*" - Advisor: Cristina Salvador. PhD
Thesis (Sociology): "*Gender, Culture, and Moral Justice: How Social Control Explains Gender Gaps in Support for Capital Punishment across Countries*" - Advisor: Hedwig E. Lee, PhD

Honors & Awards

2023 **Best Poster Runner-Up** - *the Society of Southeastern Social Psychologists Conference*
2023 **Diversifying Psychology Weekend Admission** - *University of North Carolina Chapel Hill*
2023 **Paths to PhD Admission** - *Stanford University*
2023 **Psychology Diversity Recruitment Weekend Admission** - *University of Michigan, Ann Arbor*
2023 **2nd Place Poster at Fortin Foundation Bass Connections Showcase** - *Duke University*
2023 **Nominee for Faculty Scholar Award** - *Duke Department of Psychology & Neuroscience*
2021 - 2023 **Dean's List with Distinction** - Fall 2021-Spring 2023

Grants & Fellowships

2023 **Undergraduate Research Support Assistantship Award** - *Duke University* [\$1,100]
2023 **Dean's Summer Research Fellowship** - *Duke University* [\$3,000]
2023 **Undergraduate Local Conference Attendance Award** - *Duke University* [\$200]
2023 **Sneak Peek Program Participant** - *Northwestern University* [\$600]
2023 **Psychology & Neuroscience Undergraduate Travel Award** - *Duke University* [\$1,500]
2022 **Undergraduate Research Support Assistantship Grant** - *Duke University* [\$400]

Psychology Research Experience

Apr. 2023 - **Independent Undergraduate Researcher** - *DukeLine; Duke University*
Present
Advisor: Nancy L. Zucker, PhD

- Developed a study evaluating the efficacy and cultural sensitivity of coaching strategies adopted by a peer support textline (DukeLine)
- Validated a novel measure of perceived social support
- Stewarded project through IRB approval and coordinated data acquisition (N = 144)
- Designed, executed, and reported statistical analyses including Cronbach's alpha, multiple linear regression, and t-tests using RStudio

Nov. 2022 - **Independent Undergraduate Researcher** - *Culture Lab; Duke University*
Present
PI: Cristina Salvador, PhD

- Ran experimental sessions to assess cultural influences on self-perception
- Authored an 18-page grant proposing cross-cultural analysis of positive emotions
- Designed a pilot study collecting qualitative data on emotional experiences of love and gratitude from the U.S., Chile, and China (N = 296)
- Trained an RA on qualitative coding and collectively coded 1,200 responses, extracting 17 themes to develop novel affect stimuli inducing positive emotions

- Prepared a manuscript and built visualizations using RStudio
- (Currently) writing an honors thesis assessing variations in valence of positive emotional experiences across U.S., East Asia, and Latin America

Oct. 2021 - **Research Assistant - Belief, Affect, and Behavior Lab; Duke University**

Present PI: Patty Van Cappellen, PhD

- Designed and distributed surveys, led data cleaning and management (N = 580), and coded 750 qualitative responses for a multi-study project examining religiosity and gratitude
- Utilized JASP/SPSS to run regression, ANOVA, t-test, PROCESS, and MEMORE models for an intervention study promoting compassion and prosocial decisions
- Used MindWare software to score 20+ hours of electrocardiogram (ECG) and impedance cardiogram (ICG) data for study testing the influence of prayer postures on stress reactivity
- Trained new lab member on physiology scoring
- (Currently) preparing a manuscript for peer review

Jun. 2023 - **Research Assistant Summer Intern - Emotion, Health, and Psychophysiology Lab;**
Aug. 2023 *University of California, San Francisco*

PIs: Wendy Berry Mendes, PhD, Maria Monroy, PhD, & Kimberly Martin, PhD

- Applied electrodes and operated hardware for physiology acquisition (e.g., BIOPAC, CNAP, Colin Monitor; ECG, ICG, blood pressure, skin temperature, and finger pulse).
- Cleaned physiology data using AcqKnowledge and scored them using MindWare
- Organized 20 sessions of study log sheets and task sheets
- Documented deviations from the protocol for a sleep study on stress and health
- Contributed to protocol revisions and served as the primary experimenter for two studies facilitating positive interpersonal interactions

Sept. 2021 - **Research Assistant - Bergelson Lab; Duke University**

Dec. 2021 PI: Erika Bergelson, PhD

- Annotated 80 hours of infant-parent interaction audio recordings using LENA, categorizing environmental sounds (nouns, verbs, noise) and infant vocalizations (English vocabulary, syllables) to study how acoustic variability shapes language acquisition
- Operated eye-tracking equipment
- Provided caregiving to young children (4-10) of research participants

Publications

Liu, C., Espinosa, N., & Salvador, C. (*under review*). Cultural differences in elicitors of love and gratitude: A comparison between the US, China, and Chile

Liu, C. (*under review*). One struggle, two paths: Individualism vs. collectivism in Im Yunjidang's and Nísia Floresta's ethics.

Van Cappellen, P., Bernal, A., & **Liu C.** (*in preparation*). Religious factors reducing intergroup discrimination.

Smokoski, J., Sikes, K., Shapiro, E., Roth, N. W., Karthik, R., Doyle, E., Doyle, E., Rauch, J., Alverio, G. N., **Liu, C.**, Buttry, R., Spicer, Z., & Brownstein, K. (*in preparation*). Fostering feasible and equitable university-community research partnerships (EUCRP).

Liu, C. (2022). On the Humean objection against causal realism. *PhilonoUS*, 7(1) 25-37

Liu, C. (2019). Stalin's "New Soviet Woman." *Sociology Mind*, 9(4), 247–257
<https://doi.org/10.4236/sm.2019.94016>

Presentations

Liu, C., & Zucker, N. (2024, April). *Examining the effectiveness of affirmation messages at DukeLine*. Poster accepted at Duke's Undergraduate Research Symposium, Duke University, Durham, NC

Liu, C., & Zucker, N. (2024, March). *Examining the effectiveness of affirmation messages in college peer support programs*. Poster submitted to the CEPO/Psi Chi Undergraduate Research Program at Southeastern Psychological Association Conference, Orlando, FL

Liu, C., Espinosa, N., & Salvador, C. (2024, February). *Cultural differences in elicitors of love and gratitude: A comparison between the US, China, and Chile*. Poster accepted at the Society for Personality and Social Psychology Conference, San Diego, CA

Liu, C. (2023, November). *Beyond labels: Rethinking self-views of minority groups at Duke*. Talk given at DukeLine peer health coaching training class, Duke University, Durham, NC

Liu, C., Espinosa, N., & Salvador, C. (2023, November). *What is love? Cultural differences in elicitors of love and gratitude: A comparison between the US, China, and Chile*. Poster presented at the Society of Southeastern Social Psychologists, Charlotte, NC

Doyle, L., Rauch, J., **Liu, C.**, & Spicer, Z. (2023, April). *Equitable university-community research partnerships*. Poster presented at 2023 Fortin Foundation Bass Connections Showcase, Duke University, Durham, NC

Chen, Y., Mani, S., & **Liu, C.** (2022, November). *L2 Acquisition of scope of negation and conjunction in Mandarin Chinese*. Poster presented at the Annual Boston University Conference on Language Development (BUCLD 47), Boston University, Boston, MA

Other Research Experience

- Aug. 2023 - Present **Honors Program Student** - *Department of Sociology; Duke University*
Advisor: Hedwig Eugenie Lee, PhD
- Synthesized literature on cultural norms, gender gaps, and moral judgements
 - Engaged in weekly professional development seminars with other students
 - Designed multilevel models to predict gender gaps across nations in support for capital punishment using the open-source World Value Survey data
 - (Currently) writing IRB protocol and preparing data for analysis
- Aug. 2022 - May.2023 **Undergraduate Researcher** - *Bass Connections; Duke University*
PI: Dr. Jessica Sperling Smokoski, PhD
- Collaborated with an interdisciplinary team of undergraduates, graduate students, and community members to assess the equity of community-based research practices at Duke
 - Conducted thematic coding of 10 one-hour interview transcripts using NVivo to identify successful partnership practices and challenges of building sustainable relationships
 - Wrote a white paper report to Duke administration to advocate for more equitable partnerships with community organizations and presented a poster at school's annual interdisciplinary research showcase

- Sept. 2021 - **Researcher & Content Writer** - *Project Vox; Duke University*
 Jan. 2023
 PIs: Andrew Janiak, PhD & Liz Milewicz, PhD
- Researched philosophers from marginalized and underrepresented groups
 - Synthesized information from primary and secondary sources to evaluate complex philosophical arguments
 - Wrote and revised four sections in two peer-reviewed philosophy entries (published online)
- May 2021 - **Research Assistant** - *Muser Project; Duke University*
 Jan. 2022
 PI: Yunchuan Chen, PhD
- Created original visual and audio stimuli for a linguistic study on grammatical choices of English bilinguals fluent in Japanese or Chinese
 - Conducted 50 in-person and Zoom experiment sessions
 - Presented visualized, cleaned data at a virtual conference

Teaching/Mentorship Experience

- Oct. 2023 – **Psychology Majors Union Mentor** - *Duke University*
 Present
- (Currently) providing mentorship to a sophomore student by offering guidance on course selection and finding research opportunities aligned with their interests
- Aug. 2022 - **Psychology Peer Tutor** - *Center for Athletic Excellence; Duke University*
 Present
- (Currently) assisting 8 student-athletes with assignments by providing customized tutoring for psychology courses (e.g., introductory courses, research methods, and statistics) through 1:1 and group sessions
 - Filling out post-session reports to track each student's performance
- Aug. 2021 - **Japanese Peer Tutor** - *Academic Resource Center; Duke University*
 May 2022
- Assisted students with elementary Japanese courses
 - Organized group sessions on helpful study habits and exam strategies
- Aug. 2021 - **Anti-Resume Project Member** - *Duke University*
 Jan. 2022
- Mentored Duke students and assisted with goal-setting
 - Interviewed faculty members and drafted social media blog posts
 - Designed the project's website using Wix and Canva

Clinical Experience

- Jan. 2023 - **Peer Health Coach** - *DukeLine; Duke University*
 Present
- Completed an intensive, semester-long training, covering common mental health concerns such as depression, trauma, identity crisis, and addiction
 - (Currently) providing anonymous text-line mental support to Duke students through active listening and emotional validation (48 hours/semester)
 - Keeping accurate records of interactions, including notes on the individual's concerns and progress to complete necessary follow-ups

Community Service

- May 2022 - **Co-Director of the Psychological Services Unit** - *Education Without Barriers; Nonprofit*
 Present
- (Currently) leading a team of six to enhance incoming teachers' training materials by integrating educational psychology resources.
 - Designed and taught online courses targeting young children in under-resourced regions of China (e.g., on emotion regulation, conflict resolution, and self-esteem)

- Reviewed applications and host interviews with prospective members
- Organized educational workshops to address team members' practical needs (e.g., effective teaching, career transition, and stress management)

Aug. 2022 - **PPGWL Cohort Member** - *Student Involvement & Leadership; Duke University*

- Jan. 2023
- Assisted a local cancer care center with standardization and digitalization
 - Designed a survey to gather feedback from its residents

Aug. 2022 - **Pioneer to Success Volunteer** - *Emily K Center; Nonprofit*

- Dec. 2022
- Provided academic support weekly to local students underrepresented in higher education

Jan. 2022 - **Youth Initiative Coordinator** - *Gravity Water; 501(c)(3) Nonprofit*

- Jun. 2022
- Established partnerships with three local schools and assisted with educational fundraising campaigns (e.g., giveaway, Walkathon) to raise a total of \$5000 to build three resilient and locally based water infrastructures for children in developing countries

Aug. 2021 - **Volunteer** - *Promoting Animal Welfare through Service in Durham; Duke University*

- Jan. 2022
- Engaged in weekly enrichment activities at local animal shelter

Professional Membership

APA, SAS, SPSP, Psi Chi, SEPA (Southeastern Psychological Association)

Professional Development

2023 **Project SHORT:** Students for Higher-Ed Opportunities and Representation in Training

2023 **MAGIC:** Mentoring Aspiring Graduate students and building an Inclusive Community

2023 **NPSP:** NextGen Psych Scholars Program

2022 **SCOPE:** Scholars Committed to Opportunities in Psychological Education Program

Skills & Certificates

Psychology Software and Web-Proficiencies: SONA, CloudResearch, MTurk, Prolific, Credamo

Peripheral Physiology Software: Mindware, AcqKnowledge

Statistical Software: Qualtrics, JASP, Jamovi, RStudio, SPSS, Tableau

Visualization/Web-Building Software: Adobe Premiere, Canva, Wix

Certifications: CITI, Research Data Management and Sharing, Teaching English as a Foreign Language, Student Success Mentor Training