

Yizhou “Louis” Liu, PhD

CURRICULUM VITAE

Department of Psychology
College of Arts, Humanities, & Social Sciences
University of Alabama in Huntsville
210 Morton Hall, Madison, AL, 35816
Y11589@uah.edu
Lab Website: [CHAT Lab](#)
[Google Scholar](#)

ACADEMIC APPOINTMENT

Aug 2026 – Present	Assistant Professor The University of Alabama in Huntsville
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EDUCATION

May 2026	Clemson University , Clemson, SC PhD in Human Factors Psychology
May 2023	Clemson University , Clemson, SC M.S. in Applied Psychology (Special Focus in Human Factors)
May 2021	Clemson University , Clemson, SC B.A. in Psychology with Minor in Athletic Leadership

AWARDS

Aug 2025	Dissertation Completion Grant Award Amount: \$10,000
May 2025	Outstanding Researcher Doctoral Student – College of Behavioral, Social, and Health Science Amount: \$300
May 2025	Graduate Student Research Paper Award Amount: \$200
May 2025	Outstanding Doctoral Student – Department of Psychology Amount: \$200
Nov 2024	Human Factors Institution (HFI) Director’s Award Amount: \$1000
May 2023	Outstanding Master Student – Department of Psychology Amount: \$150
Oct 2023	Human Factors Institution (HFI) Travel Grant Amount: \$500
August 2023	Clemson Graduate Student’s Government Travel Grant Amount: \$1000

PUBLICATIONS

Original Research Articles (Peer Reviewed)

Before University of Alabama in Huntsville (UAH):

Liu, Y., Byrne, K.A., Aly, H., Knijnenburg, B.P. (Accepted in June 2025). Examining Age Differences in the Effectiveness of Digital Privacy Education Interventions on Online Cookie Decisions. *International Journal of Human Computer Interaction*. (Impact factor: 3.4).
<https://doi.org/10.1080/10447318.2025.2532710>

Byrne, K.A., Pilcher, J.J., **Liu, Y.,** Brancato, M., Spinelli, M., Rosinski, M., Alvarado Batres, A., & Daughenbaugh, D. A Computational Modeling Approach to Brief Slow-Paced Breathing and Moderators of Reward-Based Decision-Making in College Students. *Acta Psychologica*, 258, 105222. (Impact factor: 2.1) <https://doi.org/10.1016/j.actpsy.2025.105222>

Aly, H., **Liu, Y.,** Khan, S., Ghaiumy Anaraky, R., Byrne, K.A., Knijnenburg, B.P. (2025). Digital Privacy Education: Customized Interventions for U.S. Older and Younger Adults in Rural and Urban Settings. *Technology in Society*, 102805. (Impact factor: 12.5).
<https://doi.org/10.1016/j.techsoc.2024.102805>

Liu, Y., Byrne, K.A., Aly, H., Ghaiumy Anaraky, R., Knijnenburg, B.P. (2024). Can Stress Put Digital Privacy at Risk? Evidence from a Controlled Experiment Examining the Impact of Acute Stress on Privacy Decisions on a Simulated Social Network Site. *Cyberpsychology, Behavior, and Social Networking*, 27(9), 664-672 (Impact factor: 6.6). <https://doi.org/10.1089/cyber.2023.0687>

Aly, H., **Liu, Y.,** Anaraky, R. G., Khan, S., Namara, M., Byrne, K. A., & Knijnenburg, B. (2024). Tailoring Digital Privacy Education Interventions for Older Adults: A Comparative Study on Modality Preferences and Effectiveness. *Proceedings on Privacy Enhancing Technologies*. (Impact factor: 5.7) <https://doi.org/10.56553/popets-2024-0036>

Byrne, K. A., Lockwood, P. L., Ghaiumy Anaraky, R., & **Liu, Y.** (2023). Age differences in prosocial behavior depend on effort costs. *The Journals of Gerontology: Series B*, 78(6), 948-958. (Impact factor: 4.59) <https://doi.org/10.1093/geronb/gbac194>

Byrne, K. A., **Liu, Y.,** Shreeves, M., & Six, S. G. (2023). Working through negativity: The influence of affective states on effort-based decision-making. *Personality and Individual Differences*, 201, 111949. (Impact factor: 3.95)
<https://doi.org/10.1016/j.paid.2022.111949>

Harris, M. W., Byrne, K. A., **Liu, Y.,** & Anaraky, R. G. (2023). The cost of giving: Examining the relationship between narcissistic, self-sacrificing, and empathetic traits on effortful versus effortless prosocial behavior. *Journal of Research in Personality*, 102, 104320. (Impact factor: 3.89) <https://doi.org/10.1016/j.jrp.2022.104320>

Harris, M. W., Byrne, K. A., Pury, C. L., Kowalski, R. M., & **Liu, Y.** (2022). More relaxed but less helpful: The relationship between stress, age, and self-reported prosocial behavior during the COVID-19 pandemic. *Psych*, 4(4), 833-842. (Impact factor: 1.78)
<https://doi.org/10.3390/psych4040061>

MANUSCRIPTS UNDER REVIEW

Liu, Y., Byrne, K.A., Aly, H., Ghaiumy Anaraky, R. (*1st R&R*). An Empirical Investigation on The Effect of Repeated Privacy Decision-Making on Privacy Fatigue and Privacy Behavior. *International Journal of Human Computer Studies* (Impact factor: 5.3)

Byrne, K.A., **Liu, Y.**, Martinez, V., Hamlin., C, Daughenbaugh, D., Nelson, C., Ross, L. (*under review*). Preliminary Acceptability and Efficacy of an Expected Value Decision-Making Training Intervention among Older and Younger Adults. *Journal of Gerontology Series B* (Impact factor: 4.5)

Rosopa, E. B., **Liu., Y.**, Rosopa, P. J., & Russell, D. W. (*under review*). It's a Pain in the Deck: Workstation Discomfort and Health Risks across Navy Ship Classes. *Applied Ergonomics* (Impact factor: 3.4)

Byrne, K.A., Pilcher, J.J., Rosopa, E. B., Daughenbaugh, D., Jackson, O., **Liu, Y.**, Dean, D., Srikanth, S. (*1st R&R*). Comparison of Slow-Paced Breathing Interventions with and without an Inhalation-Hold on Physiological Stress Responses: A Randomized Cross-Over Pilot Study. *Applied Psychophysiology and Biofeedback* (Impact factor: 3.3)

MANUSCRIPTS IN PREPARATION

Liu, Y., Byrne, K.A., Aly, H., Knijnenburg, B.P. A data-driven approach to developing Online Cookie privacy-setting interfaces.

CONFERENCE PROCEEDINGS

Byrne, K., & **Liu, Y.** (2022, September). The effect of acute stress on privacy decision-making. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 66, No. 1, pp. 2177-2181) [Symposium]. Sage CA: Los Angeles, CA: SAGE Publications.

Liu, Y., Ghaiumy Anaraky, R., Aly, H., & Byrne, K. (2023, September). The Effect of Privacy Fatigue on Privacy Decision-Making Behavior. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (Vol. 67, No. 1, pp. 2428-2433). [Poster] Sage CA: Los Angeles, CA: SAGE Publications.

Black, J., **Liu, L.**, Byrne, K. (2024, April). Can Digital Privacy Fatigue Be Induced? Examining Factors that Influence Users' Privacy Fatigue Using an Experimental Design. Poster presentation at the 7th Annual Clemson University Student Research Forum, Clemson, SC.

GRANT APPLICATIONS

Funded:

Pending:

Not Funded:

ORAL PRESENTATIONS

Liu, Y. (2022, February). Emotions and Effort-based Decision-Making. Presented at the

Clemson University Human Factors Discussion Group.

Liu, Y. (2023, October). Designing Age-inclusive digital privacy education tutorial. Presented at the Clemson University Human Factors Discussion Group.

Liu, Y. (2025, December). An User-Tailored Privacy Approach to Privacy Setting User Interface Design Presented at the Clemson University Human Factors Discussion Group.

TEACHING AND ADVISING EXPERIENCE

ASSISTANT PROFESSOR, UNIVERSITY OF ALABAMA IN HUNTSVILLE (2026 – PRESENT):

- PSY 403/503: Human Factors Psychology
- PSY 703: Human Computer Interaction

INSTRUCTOR OF RECORD, CLEMSON UNIVERSITY (Spring 2026):

- PSYC 3090: Introduction to Experimental Psychology (Statistics)
- PSYC 3340: Cognitive Psychology

LAB INSTRUCTOR, CLEMSON UNIVERSITY (Spring 2022 – Fall 2025):

- PSYC 3091: Elementary Statistics for Psychology Lab
- PSYC 3101: Elementary Research Method for Psychology Lab

UNDERGRADUATE THESIS COMMITTEES

MASTER'S THESIS COMMITTEES

DOCTORAL DISSERTATION COMMITTEES

- Joseph Atchley, Experimental Psychology PhD (Chair)
- Derek Koehl, Experimental Psychology PhD (Committee Member)
- Keighly Harris, Experimental Psychology PhD (Committee Member)

SKILLS

Technology:

R/R Studio, Python (e.g., scikit-learn, numpy, pandas), Mplus, SPSS, Microsoft Word, Microsoft Power Point, Microsoft Excel, Gazepoint Eye tracker, Qualtrics, Figma, Wix.

Statistical:

Quantitative Analysis: Structural Equation Modeling, Factor Analysis, Multi-level Modeling, Hierarchical Linear Modeling, Univariate/Multivariate Analysis, Machine Learning Models

Qualitative Analysis: Content Analysis, Thematic Analysis

CERTIFICATIONS

MEMBERSHIP

Oct 2022 – present

Human Factors and Ergonomics Society (HFES) National Member

SERVICE

AD HOC REVIEWER

ACM CHI Conference on Human Factors in Computing Systems

Acta Psychologica

AI & Society

Behavioral & Information Technology

Communications Psychology (Nature Portfolio)

source-work-id: c19657987b10e5b025d584c8cd898c03

Human Factors and Ergonomics Society (HFES) ASPIRE Annual Meeting

Humanities and Social Sciences Communications

Technology in Society

INDUSTRIAL WORK EXPERIENCE

Alcon LLC

Human Factors Engineering Full-time Co-op/Intern

May 2024 – August 2024

- Documented updates, conducted **modification analysis**, and **provided justifications** for the next generation surgical platform for laser-assisted cataract surgery.
- Conducted **user research** for the next generation of preservative-free eye drop bottles. Developed **protocols, data collection sheets, and moderator scripts** for **formative usability testing** to determine the optimal eye-drop bottle design.
- Performed internal Human Factors assessments for user interfaces and touch targets of the next generation 3D Visualization System for cataract surgery. **Identified UI issues** during workflow and provided design guidance and improvement strategies.
- **Analyzed qualitative data** for the next generation ophthalmic microscope based on feedback from 15 surgeons at a conference. Presented key findings and analysis to cross-functional teams.

Alcon LLC

Human Factors Engineering Full-time Co-op/Intern

May 2023 – August 2023

- Ensured regulatory compliance for Alcon Human Factors Documentation, including adherence to FDA, IEC 62366, and ISO 14971 standards. Authored and developed key Human Factors document templates including Use Specification, Formative Evaluation & Report, Summative Validation Testing Protocol, and Device Modification for Market Submission, aligning with both regulatory compliance and Alcon's internal requirements.
- Conducted field research in operating rooms (OR) for cataract surgery, observing the workflow and interactions of nurses, technicians, and surgeons with surgical platforms.
 - Presented workflow observations and insights to cross-functional teams.

- Applied these insights to perform task analysis for the next-generation surgical platform, integrating Phaco and Femto Laser capabilities.
- Served as both Moderator and Observer for summative validation testing sessions for a next-generation digital surgery planner.
- Conducted data analysis and contributed to writing UHFE documents subject to audits from regulatory organizations.
- Assisted in characterization testing and verification for the next-generation surgical platform for cataract surgery.

Kaleidoscope Innovation – An Infosys company

Human Factors Engineering Full-time Co-op/Intern

May 2022 – August 2022

- Moderated summative usability testing sessions and co-authored protocols/reports for an FDA-regulated self-injection kit, ensuring consistent protocol execution and data validity; Enabling clients to advance product validation, secure regulatory approval, and market submission.
- Prepared usability study materials (moderator checklists, data collection sheets), set up environments and cameras, and documented observations during summative testing sessions to support product validation and regulatory submission requirements.
- Analyzed qualitative and quantitative data from 200+ participants testing combination product (insulin pump integrated with a mobile app), demonstrating safe and effective use and meet regulatory evidence requirements.
- Participated in client meetings to communicate progress and present study findings, ensuring effective collaboration and delivering actionable recommendations.