MENGYAO LI, *PhD*

Georgia Institute of Technology, School of Psychology
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CURRICULUM VITAE — 2025

EMPLOYMENT

Assistant Professor, School of Psychology Georgia Institute of Technology, Atlanta, GA	2023 - Present
Research Intern, Honda Research Institute, San Jose, CA	2022
Research Intern, Waymo, Mountain View, CA	2021

EDUCATION

University of Wisconsin-Madison, Madison, WI Ph.D. & M.S. in Industrial and System Engineering (Human Factors)	2019 - 2023
Yonsei University, Seoul, Korea Summer program in Psychology and Physics	2016
Agnes Scott College, Decatur, GA B.A. in Psychology and Mathematics, *Summa Cum Laude*	2015 - 2018

GRANTS

CURRENT:

Bio-Behavioral Team Dynamics Measurement System (BioTDMS)
Sponsor: DOD DARPA OP TEMPO
Total Amount: $4,164,262
Li's Amount: $613,247 (15%)
Period: 2024-2027
Investigators: Jamie Gorman (PI), Nancy Cooke (co-I), **Mengyao Li (co-I)**, Michael Rosen (co-I), Bethany Bracken (co-I), Aaron Winder (co-I)

Trust Contagion Modeling in Multi-Human Multi-UAS Teams
Sponsor: Georgia Tech Research Institute (GTRI)
Total Amount: $60,000
Period: 2024-2025
Investigators: **Mengyao Li (PI)**, Theresa Kessler (PI)

HONORS & AWARDS TO ME

Smithgall-Watts Early Career Faculty Award	2024
HFES Alphonse Chapanis Best Student Paper Award	2022
HFES Student Member with Honors	2022
Best Student Paper, 2nd place in HFES Cognitive Engineering Technical Group	2020
Best Paper Award, AutomotiveUI	2019
Miriam Drucker Award, Agnes Scott College	2019
PSI CHI Regional Research Award, Southeastern Psychological Association	2019
Advantage Award, Agnes Scott College	2018
Emily Dexter Award, Agnes Scott College	2018
Goizueta Foundation STEM Funding, Agnes Scott College($5,000)	2017
Summit Scholarship, Agnes Scott College	2016
Dean's List, Agnes Scott College	2015 - 2018
International Student Grand, Agnes Scott College	2015 - 2018
Agnes Scott Honor Scholarship, Agnes Scott College	2015 - 2018

HONORS & AWARDS TO STUDENTS

Emanuel Rojas, HFES Augmented Cognition Technical Group Student Grant Awardee   2024
Stephanie Kim, Foley Scholars 2024 Finalists   2024

PUBLICATIONS

JOURNAL PUBLICATIONS

J.4.   **Li, M.,** Erickson, I., Cross, V., & Lee, J. D. (2023). It's Not Only What You Say, But Also How You Say It: Machine Learning Approach to Estimate Trust in Conversation. *Human Factors.*

J.3.   **Li, M.,** Kamaraj, A.V., & Lee, J.D. (2023). Modeling Trust Dimensions and Dynamics in Human-Agent Conversation: A Trajectory Epistemic Network Analysis Approach. *International Journal of Human-Computer Interaction,* 1-12.

J.2.   Alsaid, A., **Li, M.,** Chiou, E., & Lee, J.D. (2023). Measuring Trust: A Text Analysis Approach to Compare, Contrast, and Select Trust Questionnaires. *Frontier in Psychology, 14, 1192020.*

J.1.   Hughes, J. L., **Li, M.,** McDonnell, E. R. C., Engsberg, E. V., & Goss, C. S. (2019). Invited Editorial: Professors' Research Expectations for Admission to Psychology Graduate Programs. *Psi Chi Journal of Psychological Research, 24(1).*

R.3.   **Li, M.** & Lee, J.D. (Under review). Purpose outweighs performance: Trust drops more when an AI teammate fails to cooperate, but explanations can repair it. *International Journal of Human-Computer Interaction.*

R.2.   **Li, M.** & Lee, J.D. (Under review). Trusting Voice: Gender Differences in Trust and Cooperation of Conversational Agents *International Journal of Human-Computer Studies.*

R.1.   Rojas, E., Hsu, D., Huang, J., & **Li, M** (Under review). Interpersonal Influence Matters: Trust Contagion and Repair in Human-Human-AI Team *Human Factors.*

BOOK CHAPTERS

B.1.   **Li, M.** & Liu, J. (Under review). Measuring Team Performance through Machine Learning. In Rosen M. & Salas, E. (Eds.), Team performance assessment and measurement: Theory, methods, and applications. Oxford Handbook.

CONFERENCE PROCEEDINGS

C.12.   Rojas, E., & **Li, M**. (2024). Trust is Contagious: Social Influences in Human-Human-AI Team. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (September 9-13, 2024).

C.11.   **Li, M.,** Mehrotra, S., Akash, K., Misu, T., & Lee, J. D. (2023). You Cooperate, I Reciprocate: Well-Being and Trust in Automated Vehicles. *IEEE International Conference on Intelligent Transportation Systems* (ITSC 2023). (September 24-28, 2023).

C.10.   **Li, M**., Noejovich S. I., Cross, E.V., & Lee, J. D. (2023). Explain Trust Divergence: Bifurcation as A Dynamic System. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (October 23-27, 2023).

C.9.   Renata, V., Parker, J., Loganathar, S., Kamaraj, A. V., & **Li, M.** (2023). Tossing Your Tylenol: Supporting Sustainable Behavior in Medication Disposal Through Label Design. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (October 23-27, 2023).

C.8.   Lee, J., Kamaraj, A.V., **Li, M.,** Domeyer, J. E., Toyoda, H., & Lee, J.D. (2023). Drivers' Glance Behavior During Driver-Initiated Overrides of L2 Driving Automation: A Comparison Between Intentional and Unintentional Overrides. *Transportation Research Board (TRB) 102nd Annual Meeting.* (January 8-12, 2023).

C.7.   **Li, M.,** Erickson, I., Cross, V., & Lee, J. D. (2022, October). Estimating Trust in Conversational Agent with Lexical and Acoustic Features. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (October 9-13, 2022). **Alphonse Chapanis Student Paper Award**

C.6.   **Li, M.** & Lee, J.D. (2022, October). Modeling Goal Alignment In Human-AI Teaming: A Dynamic Game Theory Model. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (October 9-13, 2022).

C.5.   **Li, M.,** Alsaid A. Noejovich S. I., Cross V., & Lee J.D. (2020, November). Towards a Conversational Measure of Trust. *Proceedings of AAAI Fall Symposium Series 2020: Trust & Explainability in Artificial Intelligence for Human-Robot Interaction.* (November 13-14, 2020).

C.4.   **Li, M.** Katrahmani, A., Kamaraj, A.V., & Lee J.D. (2020, October). Defining Design Space of the Auto-Mobile Office: A Computational Abstraction Hierarchy Analysis. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (October 5-9, 2020). **Best CE TG Student Paper**

C.3.   Kamaraj, A.V., Katrahmani, A., **Li, M.,** & Lee J.D. (2020, October). A Data Analytics Approach to Persona Development for the Future Mobile Office. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.* (October 5-9, 2020).

C.2.   **Li, M.,** Holthausen, E., Stuck, E., & Walker, N. (2019, September). No Risk No Trust: Investigating Perceived Risk in Highly Automated Driving. *Proceedings of the Eleventh International Conference on Automotive User Interfaces and Interactive Vehicular Applications* (AutomotiveUI' 2019), Utrecht, Netherlands (September 22-25, 2019). **Best Paper Award**

C.1.   **Li, M.,** Engsberg, E. V., McDonnell, E. R., Goss, C. S., & Hughes, J. L. (2019). Research expectations for clinical vs. industrial/organizational and human factors programs. *Southeastern Psychological Association*, Jacksonville, FL. **Best Undergraduate Poster Award**

WORKSHOPS

W.6.   Mehrotra, S., **Li, M**., Akash, K. (2024, September). What's beyond safety? Workshop on promoting well-being for mobility users in future hybrid societies. In Proceedings of 16th International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI '24) (September 22-25, 2024).

W.5.   **Li, M.** & Rojas, E. (2024, March). Trust Contagion in Human-AI-Robot Team Communication. HRI' 2024 Refining Trust and its Impact in HRI Workshop (March 11, 2024).

W.4.   **Li, M.** & Lee, J.D. (2022, April). Exploring Trust Indicators in Human-Agent Conversation with Epistemic Network Analysis. *CHI-TRAIT 2022 (Workshop on Trust and Reliance in AI-Human Teams).* (April 30, 2022).

W.3.   **Li, M,** Noejovich, S., Cross, V.. Lee, J. D. (2022, February). Trust Divergence as a Dynamic Process. *NASA 2022 Human Research Program Investigators' Workshop* (HRP IWS 2022). (February 4-10, 2022).

W.4.   **Li, M,** Noejovich, S., Cross, V.. Lee, J. D. (2022, February).Measuring Trust In Conversation: A Text Analytical Approach. *NASA 2022 Human Research Program Investigators' Workshop* (HRP IWS 2022). (February 4-10, 2022).

W.5.   **Li, M.,** Erickson, I., Cross, V., & Lee, J. D. (2021, February). Estimating Trust in Human-Agent Conversation. *NASA 2022 Human Research Program Investigators' Workshop* (HRP IWS 2021). (February 1-4, 2021).

W.1.   **Li, M**. & Lee J.D. (2020, January). Trust in Voice: A Three-Level Conversational Analysis to Measure Trust in Virtual Assistants. *NASA 2020 Human Research Program Investigators' Workshop* (HRP IWS 2020), Galveston, TX (January 27-30, 2020).

INVITED TALKS

Georgia Tech, School of Psychology, Growing Up in Science   2023
Invited speaker, *"Growing Up in Science: Bridging Engineering and Psychology"*
Georgia Tech, Institute of People and Technology   2023
Seminar speaker, *"Measure, Model, and Manage Trust in Human-AI Communication and Cooperation"*
Georgia Tech, School of Psychology   2023
Seminar speaker, *"Measure, Model, and Manage Trust in Human-AI Communication and Cooperation"*
University of Michigan, Industrial and Operations Engineering   2023
Seminar speaker, *"Measure, Model, and Manage Trust in Human-AI Communication and Cooperation"*

Iowa State University, Industrial and Manufacturing Systems Engineering Department   2022
Seminar speaker, *"Measure, Model, and Manage Trust in Human-AI Communication and Cooperation"*
George Mason University, Department of Psychology   2022
Seminar speaker, *"Measure, Model, and Manage Trust in Human-AI Communication and Cooperation"*
University at Buffalo, Industrial and System Engineering Department   2022
Seminar speaker, *"Measure, Model, and Manage Trust in Human-AI Communication and Cooperation"*

TEACHING

Georgia Tech, as the instructor

Course	Title	Semester	Size
PSY 7101	Engineering Psychology I: Methods	Spring 2025	13
PSY 7102/4803	Engineering Psychology II: Displays, Controls, and Workspace	Fall 2024	15
PSY 7101/4803	Engineering Psychology I: Methods	Spring 2024	47
PSY 8901/8903	Special Problems in Eng Psy/HCI	Spring 2024	7

Georgia Tech, as the guest lecturer
ID 8803 Human-Robot Interaction Design and Research Method   2024
PSYC8807 Research Methods for Human Factors and HCI   2023

University of Wisconsin Madison
Delta Certificate in Research, Teaching, and Learning   2020 - 2022
Guest Lecturer, **Teaching Assistant,** ISyE602: Data Visualization   2022

Agnes Scott College, as the teaching assistant
CS131: Introduction to Computer Programming   2016 - 2019
CS231: How to Think Like a Data Scientist   2016 - 2019

MENTORING

PH.D. ADVISEES

Trevor Patten, School of Psychology, Georgia Tech, 2024 - 2029
Shuyuan Liu, School of Psychology, Georgia Tech, 2024 - 2029
Emanuel Rojas, School of Psychology, Georgia Tech, 2023 - 2027

THESIS COMMITTEE MEMBERS

Richard Agbeyibor, Ph.D., 2024
Title: Human-AI Collaboration Aboard Crewed Autonomous Intelligence, Surveillance, and
Reconnaissance Aircraft
School of Aerospace Engineering, Georgia Institute of Technology
David Grimm, Ph.D., 2024
Title: Measuring Dynamic Team Interdependency and Reorganization in Response to Uncertainty
School of Psychology, Georgia Institute of Technology
Emily Gleaton, Ph.D., 2020-2025

Title: Supporting Lifelong Autonomy, Vitality, Empowerment, and Resilience through Learning Education and Achievement Framework
School of Psychology, Georgia Institute of Technology
Reganne Miller, Ph.D., 2022-2028
Title: Pedagogical Agent Preference: Impact on Pedagogical Agent Effectiveness in Two Content Domains
School of Psychology, Georgia Institute of Technology
Julie Harrison, Ph.D., 2018-2024
School: Collaborative Problem Solving in Human-Robot Teams
Department of Psychology, Georgia Institute of Technology
Yichen Tang, Ph.D., 2019-2024
Title: Define Quiet Quitting in Teams
School of Psychology, Georgia Institute of Technology
Stephanie Kim, Master, 2024
Title: Designing Longitudinal IntimateHuman-Robot Interaction to Facilitate Self-Extension
Human-Computer Interaction, Georgia Institute of Technology
Dahee Kim, Master, 2024
Title: Designing Multimodal Health Information for Blind or Low Vision (BLV) Patients
School of Industrial Design, Georgia Institute of Technology
Huaizhuo Yang, Master, 2024
Title: Designing Autonomous Vehicle (AV) System to Promote Users' Trust in AV
School of Industrial Design, Georgia Institute of Technology

MASTER STUDENTS

Debbie Hsu (Georgia Tech, Human-Computer Interaction)	2023 - Present
Yan Tian (Georgia Tech, Human-Computer Interaction)	2023 - Present
Jingjing Huang (Georgia Tech, Human-Computer Interaction)	2023 - Present
Stephanie Kim (Georgia Tech, Human-Computer Interaction)	2023 - 2024
Saba Alemayehu (Georgia Tech, Human-Computer Interaction)	2023 - 2024
Hannah Agbarogji (Georgia Tech, Human-Computer Interaction)	2023 - 2024
Hiya Sachdev (Georgia Tech, Human-Computer Interaction)	2023 - 2024
Isabel Erickson (UW-Madison, ISyE)	2021 - 2022
Joshua Emory (UW-Madison, ISyE)	2021 - 2022

UNDERGRADUATE STUDENTS

Arnav Shah (Georgia Tech, CS)	2024 - Present
Dong Fang (UW-Madison, CS)	2019
Sofia Noejovich (UW-Madison, ISyE)	2020 - 2021
Aditya Tapshalkar (Georgia Tech, CS)	2018 - 2019
Sanghavi Gaddam (Georgia Tech, CS)	2018 - 2019

PROFESSIONAL SERVICE

REVIEWING

Proposals: NSF Proposal Reviewers: Cyber-Physical System (CPS), Future Manufacturing, Decision, Risk, and Management Sciences (ad hoc)
Journals: Human Factors, Computers in Human Behaviors, Journal of Experimental Psychology: Applied, Cognitive Research: Principles and Implications, International Journal of Human-Computer Studies Applied Ergonomics, Frontiers in Psychology, Risk Analysis, IEEE Transactions on Human-Machine Systems

Conference: CHI 2025, IEEE International Conference on Human-Machine Systems (ICHMS'24), International Workshop on Multidisciplinary Perspectives on Human-AI Team Trust, Human Factors and Ergonomics Society (HFES), AutomotiveUI (AutoUI),   NASA HRP 2021, AAAI Fall Symposium

PROGRAM COMMITTEE SERVICE

Editorial Assistant for Journal of Human Factors	2021 - 2023
Committee, HFES Alphonse Chapanis Best Student Paper Award	2023 - Present
Event Chair, HFE WOMEN	2022 - 2024
Co-Chair for HART session, HFES	2022
Associate Chair, AutomotiveUI	2022, 2023
Program Chair, MULTITTRUST23: International Workshop on Multidisciplinary Perspectives on Human-AI Team Trust	2023

UNIVERSITY SERVICE

Search Committee, Georgia Tech, School of Psychology	2024
Curriculum Committee, Georgia Tech, School of Psychology	2023 - Present
Membership Chair, University of Wisconsin-Madison HFES Chapter	2020 - 2023
Mentoring Circles, Agnes Scott College	2021 - 2023