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Biomedical Research Center, Baltimore, MD

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Education

University of Michigan	Ann Arbor, MI, USA
Ph.D., Psychology - Cognition & Cognitive Neuroscience	2015-2020
Graduate Certificate - Data Science	2017-2019
M.Sc., Psychology - Cognition & Cognitive Neuroscience	2015-2017
Renmin University of China	Beijing, China
M.Ed., Psychology	2012-2015
Sichuan University	Chengdu, China
B.Eng., Computer Science	2008-2012
B.M.S., Human Resource Management	

Employment

Research Fellow	
National Institute on Drug Abuse (NIDA)/National Institutes of Health (NIH)	2023 - Present
Visiting Fellow/Postdoc Researcher	
National Institute on Drug Abuse (NIDA)/National Institutes of Health (NIH)	2020-2023
World Well-Being Project, Positive Psychology Center, University of Pennsylvania	2020-2023

Peer-Reviewed Publications

* Equal Contribution

1. Pang, D., Guntuku, S. C., Sherman, G., Liu, T., You, R., Arnold B. Bakker, A. B., Ungar, L. H. (2025). Studying the Culturally Heterogeneous Effects of Gender and Age on Weibo and Twitter Language. *Humanities and Social Sciences Communications*.. 12(1), 1-18.
2. Isman, K., Giorgi, S., Ellis, J.D., Huhn, A.S., Liu, T., Curtis, B. (2025). Perceived Stigma and Its Role in Substance Use Disorder Treatment Completion. *The American Journal of Drug and Alcohol Abuse*, 51(5), 628-638.
3. Aich, A., Liu, T., Giorgi, S., Isman, K., Bobojonova, R., Ungar, L., Curtis, B. (2025). Language Models in Digital Psychiatry: Challenges with Simplification of Healthcare Materials. *NPP—Digital Psychiatry and Neuroscience*, 3(1), 10.
4. Liu, T., Giorgi, S., Aich, A., Lahnala, A., Curtis, B., Ungar, L., Sedoc, J. (2025). The Illusion of Empathy: How AI Chatbots Shape Conversation Perception. In *Proceedings of the AAAI Conference on Artificial Intelligence* (Vol. 39, No. 13, pp. 14327-14335).

5. Giorgi, S., Liu, T., Aich, A., Isman, K. J., Sherman, G., Fried, Z., Sedoc, J., Curtis, B. (2024). Modeling Human Subjectivity in LLMs Using Explicit and Implicit Human Factors in Personas. In *Findings of the Association for Computational Linguistics: EMNLP 2024* (pp. 7174-7188).
6. Giorgi, S., Isman, K., Liu, T., Fried, Z., Sedoc, J., Curtis, B. (2024). Evaluating Generative AI Responses to Real-World Drug-Related Questions. *Psychiatry Research*, 339, 116058.
7. Stamatis, C. A., Meyerhoff, J., Meng, Y., Chong, Z., Lin, C., Cho, Y. M., Liu, T., Karr, C. J., Liu, T., Curtis, B., Ungar, L. H., Mohr. D. C. (2024). Differential Temporal Utility of Passively Sensed Smartphone Features For Depression and Anxiety Symptom Prediction: A Longitudinal Cohort Study. *npj Mental Health Research*. 3, 1.
8. Stamatis, C. A., Liu, T., Meyerhoff, J., Meng, Y., Cho, Y. M., Karr, C. J., Curtis, B., Ungar, L. H., Mohr. D. C. (2023). Specific Associations of Passively Sensed sSmartphone Data with Future Symptoms of Avoidance, Fear, and Physiological Distress in Social Anxiety. *Internet Interventions*. 34, 100683.
9. Demko, Z., Liu, T., Curtis, B., Green, C. S. (2023). Development of a Novel Method of Assessing Potential Loss of Control in Internet Gaming Disorder. *Technology, Mind, and Behavior*. 4(2).
10. Tao X., Liu, T., Giorgi, S., Fisher, C., Curtis, B. (2023). Extended Impact of the COVID-19 pandemic: Trajectories of Mental Health and Substance Use Among US Adults, September 2020–August 2021. *Drug and Alcohol Dependence Reports*. 8, 100186.
11. Meyerhoff, J., Liu, T., Stamatis, C. A., Liu, T., Wang, H., MengY., Curtis, B., Sherman, G., Ungar, L. H., Mohr. D. C. (2023). Analyzing Text Message Linguistic Features: Do People With Depression Communicate Differently With Their Close and Non-close Contacts? *Behaviour Research and Therapy*. 166, 104342.
12. Liu, T.*, Giorgi, S.*, Tao X., Guntuku, S. C., Bellew, D., Curtis, B., Ungar, L.H. (2023). Different Affordances on Facebook and SMS Text Messaging Impede Generalization of Language-Based Predictive Models. In *Proceedings of the International AAAI Conference on Web and Social Media 2023* (ICWSM 23).
13. Liu, T., Jain, D., Rapole, S.R., Curtis, B., Eichstaedt, J.C., Ungar, L.H., Guntuku, S.C. (2023). Detecting Symptoms of Depression on Reddit. In *Proceedings of the 15th ACM Web Science Conference 2023* (pp. 174-183).
14. Gray, A.*, Liu, T.*, Giorgi, S., Fisher, C. B., Curtis, B. (2023). Differences in Mental Health and Alcohol Use Across Profiles of COVID-19 Disruptions. *Alcohol and Alcoholism*. 58(4), 393-403.
15. Curtis, B., Giorgi, S., Ungar, L., Vu, H., Yaden, D., Liu, T., Yadeta, K., Schwartz, H. A. (2023). AI-based Analysis of Social Media Language Predicts Addiction Treatment Dropout at 90 days. *Neuropsychopharmacology*, 1-7.
16. Lou, S., Giorgi, S., Liu, T., Eichstaedt, J. C., Curtis, B. (2023). Measuring Disadvantage: A Systematic Comparison of United States Small-Area Disadvantage Indices. *Health & Place*, 80, 102997.

17. Liu, T., Vickers, B. D., Seidler, R. D., Preston, S. D. (2023). Neural Correlates of Overvaluation and the Effort to Save Possessions in a Novel Decision Task: An Exploratory fMRI Study. *Frontiers in Psychology*, 14.
18. Tao X., Liu, T., Fisher, C., Giorgi, S., Curtis, B. (2023). COVID Related Social Determinants of Substance Use Disorder Among Diverse U.S. Racial Ethnic Groups. *Social Science & Medicine*.
19. Liu, T., Ungar, L. H., Curtis, B., Sherman, G., Yadeta, K., Tay, L., Eichstaedt, J. C., Guntuku, S. C. (2022). Head versus Heart: Social Media Reveals Differential Language of Loneliness from Depression. *npj Mental Health Research*.
20. Stamatis, C. A., Meyerhoff, J. Liu, T., Sherman, G., Wang, H., Liu, T., Curtis, B., Ungar, L. H., Mohr, D. (2022). Prospective Associations of Text-Message-Based Sentiment With Symptoms of Depression, Generalized Anxiety, and Social Anxiety. *Depression & Anxiety*.
21. Stamatis, C. A., Meyerhoff, J. Liu, T., Hou, Z. Y., Sherman, G., Curtis, B., Ungar, L. H., Mohr, D. (2022). The Association of Language Style Matching in Text Messages With Mood and Anxiety Symptoms. *Procedia Computer Science*. 206, 151-161.
22. Liu, T., Giorgi, S., Yadeta, K., Schwartz, H. A., Ungar, L. H., Curtis, B. (2022). Linguistic Predictors From Facebook Postings of Substance Use Disorder Treatment Retention Versus Discontinuation. *The American Journal of Drug and Alcohol Abuse*.
23. Devoto, A., Himelein-Wachowiak, M., Liu, T., Curtis, B. (2022). Women's Mental Health and Substance Use During the COVID-19 Pandemic. *Women's Health Issues*. 32(3), 235-240.
24. Liu, T.*, Wang, Z. *, Zhu, A., Zhang, X., Xing, C. (2022). The Effectiveness of Mating Induction on Men's Financial Risk-Taking: Relationship Experience Matters. *Frontiers in Psychology*. 12:787686.
25. Fisher, C., Tao, X., Liu, T., Giorgi, S., Curtis, B. (2021). COVID-related Victimization, Racial Bias, and Employment and Housing Disruption Increase Mental Health Risk Among U.S. Asian, Black, and Latinx Adults. *Frontiers in Public Health*. 9:772236.
26. Liu, T., Ackerman, J., Preston, S. D. (2021). Dissociating Compulsive Washing and Hoarding Tendencies Through Differences in Comorbidities and the Content of Concerns. *Journal of Behavioral and Cognitive Therapy*. 31(4), 291-308.
27. Xing, C., Liu, T., Zhang, X. (2015). Pro-social Behaviors in Emergencies: Mating Motive Changes Men and Women's Heroic Helping Tendencies Differently. *Journal of Psychological Science*. 38(1), 172-178.
28. Liu, T., Xing, C. (2015). *Does He or She Make You a Shopaholic? Mating Motive Elicits Conspicuous Consumption*. Asian Association of Social Psychology Conference Proceeding. 96-106.
29. Ma, Y., Qu, C., Liu, T., Yang, N., Tang, C. (2012). *Searching Similar Trajectories in Real Time: An Effectiveness and Efficiency Study*. Web-Age Information Management (pp. 90-102). Springer Berlin Heidelberg.

30. Duan, L., Tang, C., Zuo, J., Peng, J., **Liu, T.**, Gou, C. (2011). Self-study Algorithm for Filtering Chinese Text Content through Two Layers in Web Real-Time Environment. *Journal of Frontiers of Computer Science & Technology*, 5(8), 695-706.
31. Wang, X., **Liu, T.**, Fu, R. (2010). The Design of Time Management System for College Youth Volunteer Service. *Software Guide*, 9(7), 92-93.

Preprints

1. Aich, A., **Liu, T.**, Giorgi, S., Isman, K., Ungar, L., Curtis, B. (2024). Vernacular? i barely know her: Challenges with style control and stereotyping. *arXiv preprint arXiv:2406.12679*.
2. Omitaomu, D., Tafreshi, S., **Liu, T.**, Buechel, S., Callison-Burch, C., Eichstaedt, J., Ungar, L., Sedoc, J. (2022). Empathic Conversations: A Multi-level Dataset of Contextualized Conversations. *arXiv preprint arXiv:2205.12698*.
3. **Liu, T.**, Giorgi, S., Tao, X., Bellew, D., Curtis, B., Ungar, L. (2022). Cross-Platform Difference in Facebook and Text Messages Language Use: Illustrated by Depression Diagnosis. *arXiv preprint arXiv:2202.01802*.
4. **Liu, T.**, Xing, C., Zhang, X., Fung, H. H., Yang, M. M. (2021). Happy Times Are Longer When We Are Older: Emotions Affect Time Perception in Older Adults. *PsyArXiv Preprints*.
<https://doi.org/10.31234/osf.io/wx72p>

Papers Under Review

* Equal Contribution

1. **Liu, T.**, Giorgi, S., Bloom, P.B., Mellinger, J.L., Curtis, B. (under review). Passive Smartphone Sensor Monitoring in Patients with Alcohol-Related Cirrhosis and Hepatic Encephalopathy: Longitudinal Observational Study. *JMIR mHealth and uHealth*.
2. **Liu, T.**, Tay, L., Isman, K., Curtis, B., Ungar, L. H. (under review). Measuring Connections: Development of the Friendship Function Scale (FFS) for Adults. *International Journal of Wellbeing*.
3. Omitaomu, D.*, Tafreshi, S.*, **Liu, T.**, Buechel, S., Callison-Burch¹, C., Curtis, B., Eichstaedt, J. C., Ungar, L. H., Sedo, J. (under review). Empathic Conversations: A Multi-level Dataset of Contextualized Conversations. *Transactions of the Association for Computational Linguistics*.

Service

Emerging Editor Board Member

Personality and Social Psychology Review

Peer-reviewed Journal/Conference Reviewer

The 40th 2026 AAAI Conference on Artificial Intelligence, AI Alignment Track (Program Committee)
The 40th 2026 AAAI Conference on Artificial Intelligence (Program Committee)

Alcohol and Alcoholism

2024 ACM CHI Conference on Human Factors in Computing Systems (Program Committee)

The American Journal of Drug and Alcohol Abuse

Communications Psychology

Cognitive Neurodynamics

Computers in Human Behavior Reports

2023 International Conference on Information and Knowledge Management (Program Committee)

2024 International Conference on Information and Knowledge Management (Program Committee)

2025 International Conference on Information and Knowledge Management (Program Committee)

Drug and Alcohol Dependence Reports

Evolutionary Psychological Science

Frontiers in Psychology, Health Psychology

Frontiers in Psychology, Personality and Social Psychology

Frontiers in Public Health

IEEE Transactions on Affective Computing

International Journal of Wellbeing

2022 International AAAI Conference on Web and Social Media (Program Committee)

NPP—Digital Psychiatry and Neuroscience

Personality and Social Psychology Review

Psychiatry Research

Wellbeing, Space & Society

National Institutes of Health

Technology Development Initiative Paper of the Month Committee 2023-2024

Center on Compulsive Behaviors Fellow 2022-2025

Center on Compulsive Behaviors Fellows Committee 2023-2025

Award Reviewer

SPSP Graduate Registration Award 2020

SPSP Outstanding Research Award 2020

Department of Psychology, University of Michigan

Departmental Associate 2019-2020

Graduate Student Leadership Council Member 2019-2020

Admission Committee, Cognition & Cognitive Neuroscience Area 2018-2019

Social Committee, Cognition & Cognitive Neuroscience Area 2017-2018

Young Chinese Association for Personality & Social Psychology

Committee Member 2017-2020

Annual Conference Organization Committee 2017-2020

Awards & Grants

The American College of Neuropsychopharmacology (ACNP) 62nd Annual Meeting Travel Support 2023

ACM WebSci'23 Travel Grant	2023
Center on Compulsive Behaviors Fellowship, National Institutes of Health (NIH, \$30,000/year)	2022-2025
2022 NIH Fellow Award for Research Excellence (FARE)	2021
Rackham Conference Travel Grant, University of Michigan (\$800)	2020
Rackham One-Term Dissertation Fellowship (\$10,890)	2020
Evolution and Human Adaptation Program Research Award, University of Michigan (\$1,000)	2019
Barbara Perry Roberson Fellowship, University of Michigan (\$2,000)	2019
Rackham Graduate Student Research Grant, University of Michigan (\$2,978)	2019
ISR-Rackham Summer Training Award, University of Michigan (\$3,700)	2018
Rackham Conference Travel Grant, University of Michigan (\$800)	2018
Rackham Conference Travel Grant, University of Michigan (\$800)	2017
Rackham Conference Travel Grant, University of Michigan (\$800)	2016
Fully Funded Graduate Fellowship, University of Michigan	2015-2020
China National Scholarship for Graduate Student (\$3,000, Top 0.2%)	2015
Outstanding Graduate Student, Renmin University of China	2014-2015
First-Class Scholarship for Graduate Student, Renmin University of China (\$1,800)	2014-2015
Outstanding Graduate Student, Renmin University of China	2013-2014
First-Class Scholarship for Graduate Student, Renmin University of China (\$1,800)	2013-2014
Outstanding Graduate Student, Renmin University of China	2012-2013
First-Class Scholarship for Graduate Student, Renmin University of China (\$1,800)	2012-2013
Stars of School of Computer Science, Sichuan University (Top 6/430)	2012
2008-2009 Outstanding Volunteers, Sichuan University	2009

Teaching

University of Michigan	Ann Arbor, MI, USA
Instructor	
Psych 402-004: Evolutionary Consumer Psychology	Winter 2019
Graduate Student Instructor	
Psych 111: Introduction to Psychology (with Dr. James Hoeffner)	Winter 2018
Psych 240: Introduction to Cognitive Psychology (with Dr. Taraz Lee)	Fall 2017
Psych 240: Introduction to Cognitive Psychology (with Dr. James Hoeffner)	Winter 2017
Psych 240: Introduction to Cognitive Psychology (with Dr. Thad Polk)	Fall 2016
Psych 240: Introduction to Cognitive Psychology (with Dr. Nick Ellis)	Winter 2016

Invited Talks & Conference Presentations

- Liu, T.** (2025). *The illusion of empathy: How AI chatbots shape conversation perception*. Oral presentation at AAAI Conference on Artificial Intelligence. Philadelphia, PA, USA.
- Liu, T.** (2025). *The illusion of empathy: How AI chatbots shape conversation perception*. Poster presentation at AAAI Conference on Artificial Intelligence. Philadelphia, PA, USA.

Liu, T. (2024). *The illusion of empathy: How AI chatbots shape conversation perception*. Poster presentation at Second Workshop on Social Influence in Conversations (SICon 2024). Miami, FL, USA.

Mellinger, J., **Liu, T.**, Bloom, P., Giorgi, S., Curtis, B. (2024). Digital Phenotype Varies By Alcohol Use History and Hepatic Encephalopathy. The AASLD Liver Meeting.

Liu, T. (2024). Panel list speaker for "Opportunities and Challenges in Applying Digital Health Technology for Addiction Health Services Research" at Addiction Health Services Research (AHSR) conference. San Francisco, CA, USA.

Liu, T. (2023). *Women's Substance Use and Mental Health*. Oral presentation to U.S. Food and Drug Administration CACSE Workshop on Mental Health: Challenges and Opportunities. Virtual.

Liu, T. (2023). Panel list speaker for study group "The Science and Ethics of Measuring and Modeling Individual and Group Behavior" at The American College of Neuropsychopharmacology (ACNP) 62nd Annual Meeting. Tampa, FL, USA.

Liu, T. (2023). *Analyzing Language Use in the Context of Substance Use: A Computational Linguistic and Neuroscientific Approach*. Data Blitz talk at the 2023 Jacob P. Waletzky Award Symposium. Baltimore, MD, USA.

Liu, T., Jain, D., Rapole, S.R., Curtis, B., Eichstaedt, J.C., Ungar, L.H., Guntuku, S.C. (2023). *Detecting Symptoms of Depression on Reddit*. Oral presentation to the 15th ACM Web Science Conference 2023. Austin, TX, USA.

Liu, T., Giorgi, S., Tao X., Guntuku, S. C., Bellew, D., Curtis, B., Ungar, L.H. (2023). *Different Affordances on Facebook and SMS Text Messaging Impede Generalization of Language-Based Predictive Models*. Poster presentation at Proceedings of the International AAAI Conference on Web and Social Media 2023 (ICWSM 23). Virtual.

Liu, T. (2023). *Head vs. Heart: Facebook Language Reveals the Differences Between Loneliness and Depression*. Invited talk for Penn Wharton China Center. Virtual.

Stamatis, C. A., Meyerhoff, J., **Liu, T.**, Hou, Z., Sherman, G., Ungar, L. H., Mohr, D. C. (2022). *Sentiment Mirroring in Text Messages Among People With and Without Affective Psychopathologies*. Individual oral presentation to the 11th annual meeting of the International Society for Research on Internet Interventions, Pittsburgh, PA, USA.

Liu, T., Ungar, L., Curtis, B., Guntuku, S. C. (2022). *Social Media Reveals Differential Language of Loneliness and Depression*. Poster at Psychology of Media and Technology Pre-conference at 2022 Society for Personality and Social Psychology Convention, San Francisco, CA, USA.

Yadeta, K., **Liu, T.**, Giorgi, S., Schwartz, H.A., Ungar, L., Curtis, B. (2021) *Language Markers Predicting Addiction Treatment Outcomes*. 2021 National Institutes of Health (NIH) Virtual Postbac Poster Day. Virtual.

Curtis, B., **Liu, T.** (2021). *Digital Markers for Forecasting Relapse & Recovery*. Symposium talk at the 44th Annual RSA Scientific Meeting / ISBRA Congress. Virtual.

- Liu, T.,** Shackelford, T., Rick, S., Preston, S. (2020). *Conspicuous Consumption in Committed Relationships: A Signal of Relationship Dissatisfaction by Heterosexual men*. Symposium talk at the 2020 Society for Personality and Social Psychology Convention, New Orleans, LA, USA.
- Symposium Chair of "Why We Buy: Novel Insights from Evolutionary Consumer Psychology" at the 2020 Society for Personality and Social Psychology Convention, New Orleans, LA, USA.
- Liu, T.** (2019). *Conspicuous Consumption in Committed Relationships*. Invited talk at Cognition and Cognitive Neuroscience Area Forum, Ann Arbor, MI, USA.
- Liu, T.,** Ackerman, J. M., Preston, S.D. (2018). *Dissociating Compulsive Hoarding and Washing Through Emotions and Appraisals*. Poster at the Emotion Pre-conference at the 2018 Society for Personality and Social Psychology Convention, Atlanta, GA, USA.
- Liu, T.,** Ackerman, J. M., Preston, S.D. (2017). *Washing and Hoarding: How Emotions and Their Targets of Concern Predict Diverging Responses*. Blitz talk at University of Michigan's Jeffe Symposium on Security and Scarcity, Ann Arbor, MI, USA.
- Liu, T.,** Ackerman, J. M., Preston, S.D. (2017). *Washing and Hoarding: How Emotions and Their Targets of Concern Predict Diverging Responses*. Invited talk at Cognition and Cognitive Neuroscience Area Forum, Ann Arbor, MI, USA.
- Liu, T.,** Ackerman, J. M., Preston, S.D. (2017). *Cleanliness or Clutter: How Emotions and Their Targets of Concern Predict Diverging Responses*. Poster at the Emotion Pre-conference at the 2017 Society for Personality and Social Psychology Convention, San Antonio, TX, USA.
- Liu, T.,** Vickers, B., Seidler R., Preston, S.D. (2016). *Don't Throw That Away! People Work to Save Valued Items From Being Discarded*. Poster at the 28th Association for Psychological Science Annual Convention, Chicago, IL, USA.
- Liu, T.,** Xing, C., Zhang, X., Fung, H. H., Yang, M. (2015). *Time Flies When Watching Negative Faces: Emotions Color Time Perception in Older Adults Oppositely*. Talk at the 2015 U.S.Hong Kong Aging Conference, Hong Kong, China.
- Liu, T.,** Xing, C., Zhang, X., Fung, H. H., Yang, M. (2014). *How Emotions Influence Time Perception in Older Adults*. Talk at the 17th National Academic Congress of Psychology, Beijing, China.
- Liu, T.,** Xing, C., Zhang, X., Fung, H. H., Yang, M. (2014). *Happy Times Are Longer When We Are Older: Emotions Affect Time Perception in Older Adults*. Talk at the International Symposium on Psychology of Aging, Beijing, China.
- Liu, T.,** Xing, C. (2014). *Emergency Helping Altered: Romantic Mindset Makes Men and Women's Tendency Opposite*. Poster at the Society for Personality and Social Psychology, Austin, Texas, USA.
- Xing, C., **Liu, T.** (2014). *The Effect of Mating Motivation on Men's Risk-Taking Tendency: Relationship Experience Matters*. Poster at the 2014 Society for Personality and Social Psychology Convention, Austin, Texas, USA.

Liu, T., Xing, C. (2013). *Does He or She Make You A Shopaholic? Mating Motives Elicit Conspicuous Consumption*. Talk at the Asian Association of Social Psychology, Yogyakarta, Indonesia.

Xing, C., Sun, J., **Liu, T.**, Zhang, X. (2013). *Prosocial Behaviors in Emergencies: Mating Motive Changes Men and Women's Helping Tendencies Differently*. Talk at the 2013 Chinese Economic Society Annual Conference, Chengdu, China.

Training Experience

Mathwork/FAES MATLAB Fundamentals Workshop , Virtual	2021
ICPSR Summer Program in Quantitative Methods of Social Research , Ann Arbor, MI	2018
Summer program provides rigorous, hands-on training on statistical techniques, research methodologies, and data analysis.	
Training Course in fMRI , University of Michigan	2016
Summer intensive course on fMRI methods and analysis.	
Teaching Academy , University of Michigan	2015
Semester-long course on best practices for teaching as a Graduate Student Instructor.	

Skills

10-year+ Experience: Qualitative & Quantitative Methods (Sampling, Survey & Experiment Design)
Languages & Softwares: Experienced in R, SPSS, SQL, Matlab, Tableau, Qualtrics & Exposed to Python
Statistical Storytelling: Data Wrangling & Visualization, Significance Testing, Regression & Multilevel Models, Dimension Reduction (PCA, EFA), Clustering
Certificated Licence: Certificated National Psychological Counselor in China (Level II)

Professional Associations

Member: Society for Personality and Social Psychology
Member: Association for Psychological Science
Committee Member: Young Chinese Association for Personality & Social Psychology