

Curriculum Vitae

Yiyang Liu, PhD, MPH

DATE: 01/2024

PERSONAL INFORMATION

Place of Birth: Beijing, China
Marital status: Married
Citizenship: China. P.R. (Visa status: H1B)

CONTACT INFORMATION:

2004 Mowry Rd, PO Box 100231,
Gainesville FL 32610
Phone: 352-294-5672
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CURRENT POSITION:

Research Assistant Professor, Department of Epidemiology
College of Public Health and Health Professions, College of Medicine,
University of Florida

EDUCATION

2009-2013 Bachelor of Business Administration (BBA), Pharmaceutical Business Administration
Beijing University of Chinese Medicine (BUCM), Beijing, China

2013-2015 Master of Public Health (MPH), Epidemiology
Tulane University, New Orleans, Louisiana
Thesis: Omega-3 Fatty Acid Intake and Gynecological Cancer: A Systematic Review and Meta-analysis

2016- 2020 Doctor of Philosophy (PhD), Epidemiology
University of Florida, Gainesville, Florida
Dissertation: Cocaine use patterns and polysubstance use among cocaine users from a national survey
Mentor: Linda B. Cottler, PhD, MPH, FACE
Dissertation committee: Linda Cottler MPH, PhD (Chair), Krishna Vaddiparti, PhD, MPE, MSW, Hui Hu, PhD, Barry Setlow, PhD, Jeewon Cheong, PhD

PROFESSIONAL EXPERIENCE

2012- 2013 **Research Assistant**, *Beijing Haidian Centers for Disease Control and Prevention (CDC), Beijing, China*

Research on the relationship between Internet addiction and musculoskeletal diseases among college students in Beijing.

- 2014- 2015 **Program Evaluation Intern**, Louisiana Office of Public Health Bureau of Family Health, New Orleans, LA
Program on Nutrition and Physical Activity Self-Assessment for Child Care (NAPSACC) year 2013-2014.
- 2015- 2016 **Research Assistant**, *HealthStreet, University of Florida, Gainesville, FL*
HealthStreet is a community engagement program at the University of Florida that bridges the gaps in health care and health research.
- 2016- 2020 **Graduate Assistant**, *Department of Epidemiology, College of Medicine and College of Public Health and Health Professions, University of Florida*, Mentor: Dr. Linda Cottler.
- 2020-2022 **Postdoctoral Scholar**, *Department of Epidemiology, College of Medicine and College of Public Health and Health Professions, University of Florida*, Co-Mentor: Dr. Robert Cook and Dr. Mattia Proserpi
- 2022-Present **Research Assistant Professor**, *Department of Epidemiology, College of Medicine and College of Public Health and Health Professions, University of Florida*,

AWARDS AND HONOR

- 2012-2013 The Second Prize Scholarship, Beijing University of Chinese Medicine
- 2012-2013 Excellent Student Awards, Beijing University of Chinese Medicine
- 2016-2020 Dean's Scholarship, University of Florida
- 2017, 2019 Center for Addiction Research & Education (CARE) Travel Awards
- 2017-2019 Chair's Travel Awards (4 times)
- 2018 Second Place University of Florida School of Public Health and Health Professions Research Day Abstract Competition
- 2018 Graduate Student Council Travel Awards
- 2019 University of Florida Open Access Publishing Fund (UFOAP)
- 2021 2021 Society for Epidemiologic Research (SER) Conference Scholarship
- 2023 Great Teaching for New Faculty Certificate

TEACHING EXPERIENCE

Instructor

- 2023-2024 Advanced Skills in Epidemiological Data Management (PHC 7065)

Guest lecturers

2021	Screening in Public Health Practice with COVID-19 Examples, Principles of Epidemiology (PHC 6001)
2021	Descriptive Epidemiology with COVID-19 Examples, Principles of Epidemiology (PHC 6001)
2021	The Effects of Culture - Asian Americans and Asian Immigrants and Health Disparities. Understanding Health Disparities in the United States (PHC 6441)
2022	Machine Learning for Causal Inference, Advanced Epidemiologic Methods III (PHC 7017)
2023	Critical issues in primary data collection and data management, Epidemiology Seminar II. Critical Evaluation and Methods in Epidemiology. (PHC 7000)
2023	Using electronic health records for HIV and substance use research. Core Seminar in The Translational Science of Alcohol and HIV Infection (HSC 6835/PHC 6937)

Teaching Assistant

2017-2019	Principles of Epidemiology (PHC 6001) 2017&2019 Summer for Dr. Krishna Vaddiparti 2017 Fall for Dr. Nancy Seraphin
2018-2019	Public Health Concept (PHC 4101) 2018&2019 Spring for Professor. Jerne Shapiro 2018 Fall for Dr. Catalina Lopez-Quintero 2019 Fall for Dr. Lindsey King
2020	Epidemiology Methods I (PHC 6000) 2020 Spring for Dr. Lusine Yaghjian

INVITED PANELISTS AND LECTURESHIPS

2021	University of Florida Nursing Research Summit for the panel “Promoting Racial and Ethnic Equity Through Nursing Research and Scholarship” (virtual)
2023	Ending the HIV Epidemic Conference & Health Fair 2023. Date: 12/05/2023. Miami-Dade College Wolfson Campus. Presentation: Artificial Intelligence and Counterfactually Actionable Responses to End HIV

RESEARCH SUPPORT

a. Active

NIH/NIAID R01AI145552 (Salemi/Prosperi)

Title: Forecasting trajectories of HIV transmission networks with a novel phylodynamic and deep learning framework (PRIDE) (\$2,809,658)

Date: 05/2020-04/2024
Role: Postdoc/Co-Investigator

Merck Investigator Studies Program/MISP 100230 (Prosperi/Liu)
Title: Interest and Uptake of Long-acting Antiretroviral Therapy (ART) among People with HIV in Florida (\$150,347.60)
Date: 11/2022-11/2024
Role: Multiple-Principal Investigator (15% efforts)

FL DEPT OF HEALTH (Liu/Prosperi/Cook/Vaddiparti)
Title: CODUS renewal/HIV Outcomes and Stigma (\$515,332)
Date: 08/2023-07/2025
Role: Contact PI (25% efforts)

University of Florida College of Public Health and Health Professionals Research Innovation Fund (Liu/Chen)
Title: Utilizing natural language processing of clinical notes for HIV risk prediction (\$25,000)
Date: 09/2023-08/2024
Role: Contact PI

NIH/NIAID R01AI172875 (Prosperi/Bian)
Title: Artificial Intelligence and Counterfactually Actionable Responses to End HIV (AI-CARE-HIV) (\$731,394)
Date: 04/25/2023-03/31/2027
Role: Co-Investigator (10% efforts)

b. Pending:

NIH/NIMH PA-20-145 R34 (Liu/Cho)
Title: Implementing the EHR-based HIV risk prediction model to identify women who would be benefitted from HIV preexposure prophylaxis (PrEP) and testing in Florida
Role: Co-Principal Investigator

c. In preparation:

d. Completed:

Clinical Directors Network (Site PI Cottler)
Title: Medication Use, Safety and Evidence (MUSE) (\$622,350)
Dates: 2017-2020
Role: Graduate Assistant

Arbor Pharmaceuticals (Cottler)
Title: Study of Non-Oral Administration of Prescription Stimulants (SNAPS) (\$299,000)

Dates: 2018-2021
Role: Graduate Assistant

NIH NIDA R21/R22 DA045140 (Cottler/Knackstedt)
Title: Identifying Patterns of Human Polysubstance Use to Guide Development of Rodent Models (\$1,927,577)
Dates: 2018-2021
Role: Graduate Assistant/Study Coordinator

Florida Department of Health CODNY / CODRU (Prosperi/Cook/Vaddiparti)
Title: HIV outcomes and stigma (\$419,375)
Dates: 05/01/2020-03/31/2022
Role: Co- Investigator (20% efforts)

UF CTSI/NIH/NCATS UL1TR001427- PRO00039875 (Siddiqi)
Title: Identify and Characterize PrEP Users from OneFlorida Electronic Health Records and Explore Provider's Insights on a PrEP related Clinical Decision Support Tool (\$45,991)
Dates: 2021-2022
Role: Co-Investigator (15% efforts)

MENTORING

- a. PhD Dissertation Supervisory Committee Member
Andrew McCabe (2023-2025)
Vijaya L. Seegulam (2023-2025)
- b. Master of Public Health (MPH) Faculty Advisor:
Lauren Nave (2022-2023), Shilpi Mistry (2022-2024), Jessica Kapinos (2022-2024), Xiaobei Chen (2023-2024)
- c. Master of Science in Epidemiology Thesis Committee Chair
Maitri Patel (2023-2024): TBD
- d. Master of Science in Epidemiology Thesis Committee Member
Emma Freeman (2023): Temporal and spatial distribution of vibrio cholerae and vibrio cholerae bacteriophage during a cholera outbreak in Bangladesh
- e. Other Mentor
Sabana Bhatta (2022-2023). Research Scientist from New York State Department of Health Paired Mentor from the Council of State and Territorial Epidemiology (CSTE) Early Career Professionals Mentorship Program
Dann Kelly Ace (2023-2024). Preceptor for Master of Public Health Applied Practice Experience/Internship

PEER REVIEWED PUBLICATIONS

1. **Liu Y**, Williamson V, Setlow B, Cottler LB, Knackstedt LA. The importance of considering polysubstance use; lessons from cocaine research. *Drug Alcohol Depend.* 2018 Nov, Volume 192, Pages 16-28. PMID: 30195242. PMCID: PMC7450360. DOI:10.1016/j.drugalcdep.2018.07.025
2. **Liu Y**, Elliott A, Serdarevic M, Leeman R, Cottler LB. A latent class analysis of the past-30-day substance use patterns among lifetime cocaine users: findings from a community sample in North Central Florida. *Addictive Behavior Reports.* 2019, Volume 9: 100170. PMID: 31193730. PMCID: PMC6542739. DOI:10.1016/j.abrep.2019.100170
3. **Liu Y**, Elliott A, Striley CW, Gurka K, Cottler LB. Motives for prescription stimulant use by patterns of non-medical use. *Journal of Substance Use.* 2019, Volume 24, Issue 4, Pages 455-460. PMID: 31814798. PMCID: PMC6897386. DOI:10.1080/14659891.2019.1604838
4. **Liu Y**, Elliott A, Strelnick H, Aguilar-Gaxiola S, Cottler LB. Asian Americans are less willing than other racial groups to participate in health research. *Journal of Clinical and Translational Science.* 2019, Volume 3, Issue 2-3, Pages 90-96. PMID: 31660231. PMCID: PMC6802418. DOI:10.1017/cts.2019.372
5. Elliott A, **Liu Y**, Egan KL, Striley CW, Cottler LB. Exposure to medicines in the family medicine cabinet: is it a harbinger of later opioid dependence. *Substance Use & Misuse.* 2020, Volume 55, Issue 10, Pages 1709-1715. PMID: 32394779. PMCID: PMC8442636. DOI:10.1080/10826084.2020.1756856
6. **Liu Y**, Ball DJ, Elliott A, Jacobs-Elliott M, Nicolette G. Diagnostic sequence of cocaine use disorder in relation to other mental health conditions among college students. *Journal of American College Health.* 2020, Volume 68, Issue 6, Pages 575-578. PMID: 30908134. DOI:10.1080/07448481.2019.1583657
7. **Liu Y**, Smith NDL, Lloyd SL, Striley CW, Cottler LB. Prescription stimulant use and associated risk factors for non-oral use among 10 to 18 year olds. *Journal of Psychoactive Drugs.* 2020 Volume 52, Issue 5, Pages. 421-432. PMID: 32723035. DOI:10.1080/02791072.2020.1795326
8. **Liu Y**, Cheong J, Vaddiparti K, Cottler LB. The association between quantity, frequency and duration of cocaine use during the heaviest use period and DSM-5 cocaine use disorder. *Drug and Alcohol Dependence.* 2020, Volume 213, 108114. PMID: 32563848. DOI:10.1016/j.drugalcdep.2020.108114
9. Otufowora A, **Liu Y**, Striley CW, Varma D, Cottler LB. Correlates related to follow-up in a community engagement program in North Central Florida. *Journal of Community Psychology.* 2020, Volume 48, Issue 8, Pages 2723-2739. PMID: 32949042. PMCID: PMC7719614. DOI:10.1002/jcop.22450

10. **Liu Y**, Vaddiparti K, Cheong J, Cottler LB. Identification of typologies of cocaine use based on quantity, frequency, and duration of use: a latent profile analysis. *Journal of Addiction Medicine*. 2021, Volume 15, Issue 3, Pages 211-218. PMID: 33009168. DOI: 10.1097/ADM.0000000000000749
11. Otufowora A, **Liu Y**, Young H, Egan KL, Johnson M, Striley CW, Varma D, Cottler LB. Gender differences in willingness to participate in research, based on study risk level among a community sample of African Americans, in north-central Florida. *Journal of Immigrant and Minority Health*. 2021, Volume 23, Issue 1, Pages 19-25. PMID: 32328873. PMCID: PMC7714285. DOI:10.1007/s10903-020-01015-4
12. **Liu Y**, Cheong J, Setlow B, Cottler LB. Cocaine and marijuana polysubstance use and cocaine use disorder: Investigating mediated effects through patterns of cocaine use. *Journal of Dual Diagnosis*. 2021, Volume 17, Issue 1, Pages 23-33. PMID: 33300839. PMCID: PMC7902454. DOI:10.1080/15504263.2020.1849887
13. Richards VL, **Liu Y**, Orr J, Leeman RF, Barnett NP, Bryant K, Cook RL. Sociodemographic and clinical factors associated with transdermal alcohol concentration from the SCRAM biosensor among persons living with and without HIV. *Alcoholism: Clinical and Experimental Research*. 2021. Volume 45, Issue 9, Pages 1804-1811. PMID: 34342009. PMCID: PMC8526382. DOI: 10.1111/acer.14665
14. **Liu Y**, Richards VL, Gebur NM, Spencer EC, Cook RL. Associations amongst form of cocaine used (powder vs crack vs both) and HIV-related outcomes. *Addictive Behaviors Reports*. 2021, Volume 14: 100374. PMID: 34938835. PMCID: PMC8664776. DOI: 10.1016/j.abrep.2021.100374
15. **Liu Y**, Siddiqi KA, Cook RL, Bian J, Squires PJ, Shenkman EA, Prospero M, Jayaweera DT. Optimizing identification of people living with HIV from electronic medical records (EHR): Computable phenotype development and validation. *Methods of Information in Medicine*. 2021. Volume 60, Issue 3-04, Pages 84-94. PMID: 34592777. PMCID: PMC8672443. DOI: 10.1055/s-0041-1735619
16. Siddiqi KA, **Liu Y**, Ding DD, Olatosi BA. Estimating resource utilization for emergency department visits by patients' HIV seropositivity in the United States, 2009 to 2018. *The American Journal of Emergency Medicine*. 2022 Volume 53, Pages 73-79. PMID: 34995859. DOI:10.1016/j.ajem.2021.12.025
17. **Liu Y**, Rich SN, Siddiqi KA, Chen Z, Prospero M, Spencer E, Cook RL. Longitudinal trajectories of HIV care engagement since diagnosis among persons with HIV in the Florida Ryan White program. *AIDS and Behavior*. 2022 April. Volume 26, Issue 10, Pages 3164-3173. PMID: 35362911. PMCID: PMC10080894. DOI: 10.1007/s10461-022-03659-9
18. Fitzgerald DF, **Liu Y** (co-first author), Wang A, Striley CW, Setlow Barry, Knackstedt L, Cottler LB. Test-retest reliability of a novel assessment to detect detailed temporal

patterns of polysubstance use. *International Journal of Methods in Psychiatric Research*. September 2022; Volume 31, Issue 3:e1912. PMID: 35684977. PMCID: PMC9464326. DOI: 10.1002/mpr.1912

19. Gebru NM, Canidate S, **Liu Y**, Schaefer SS, Pavila E, Cook RL, Leeman R. Substance Use and Adherence to HIV Pre-Exposure Prophylaxis in Studies Enrolling Men Who Have Sex with Men and Transgender Women: A Systematic Review. *AIDS and Behavior*. July 2022. Volume 27, Issue 7, Pages 2131-2162. PMID: 36538138. DOI: 10.1007/s10461-022-03948-3
20. **Liu Y**, Ramos SD, Hanna DB, Jones DL, Lazar JM, Kizer JR, Cohen MH, Haberlen SA, Adimora AA, Lahiri CD, Wise JM, Friedman MR, Plankey M, Chichetto NE. Psychosocial syndemic classes and longitudinal transition patterns among sexual minority men living with or without HIV in the Multicenter AIDS Cohort Study (MACS) *AIDS and Behavior*. Dec 2023. Volume 27, Issue 12, Pages 1094-4105. PMID: 37418062. PMCID: PMC10615787. DOI: 10.1007/s10461-023-04123-y
21. Snigurska UA, **Liu Y**, Ser SE, Macieira TGR, Ansell M, Lindberg D, Prospero M, Bjarnadottir RI, Lucero RJ. Risk of bias in prognostic models of hospital-induced delirium for medical-surgical units: A systematic review. *PLOS One*. August 2023. Volume 18, Issue 9: :e0285527. PMID: 37590196. PMCID: PMC10434879. DOI: 10.1371/journal.pone.0285527
22. Otufowora A, **Liu Y**, Okusanya A, Ogidan A, Okusanya A, Cottler LB. Past 30-day Sedative Use Among Community-Dwelling Adult Males in North Central Florida: The Effect of Veteran Status and Chronic Pain. *Journal of the American Board of Family Medicine*. 2023. DOI: 10.3122/jabfm.2023.230226R2 [in press]
23. Vaddiparti K, **Liu Y**, Bottari S, Crump CL, Zhou Z, Wang Y, Williamson J, Cook RL. Improved Posttraumatic Stress Disorder Symptoms and Related Sleep Disturbances after Initiation of Medical Marijuana Use: Evidence from a Prospective Single Arm Pilot Study. *Medical Cannabis and Cannabinoids*. Nov 2023. Volume 13;6, Issue 1, Pages 160-169. PMID: 37965569. PMCID: PMC10642978. DOI: 10.1159/000534710
24. **Liu Y**, Siddiqi KA, Cho H, Park H, Prospero M, Cook RL. Demographics, Trends, and Clinical Characteristics of HIV pre-exposure prophylaxis (PrEP) Recipients and People Newly Diagnosed with HIV from Large Electronic Health Records in Florida. *AIDS Patient Care and STDs*. Jan 2024. Volume 38, Issue 1, Pages 14-22. PMID: 38227279. PMCID: PMC10794838. DOI: 10.1089/apc.2023.0220.

Letter to the editor and Commentary

1. **Liu Y**, Evaluating the effectiveness of disposal programs through a comparison with prescription drug monitoring program data. *Am J Drug Alcohol Abuse*. 2017 Mar 7:1. PMID: 28267355 DOI:10.1080/00952990.2017.1292280 [Letter-to-the-editor]

2. **Liu Y**, Osborne V, Serdarevic M, Johnson ME, Striley CW, Varma DS, Vaddiparti K, Lasopa SO, Cottler LB. Comments on the Potential Role for Abuse-Deterrent Formulations of Central Nervous System Stimulants. FDA Docket No. FDA-2019-N-3403. URL <https://www.regulations.gov/document?D=FDA-2019-N-3403-0696> [Letter-to-the-FDA]

Under review/ under revision/ in preparation

1. **Liu Y**, Manavalan P, Siddiqi K, Cook RL, Prosperi M. Comorbidity burden and health care utilization by substance use disorder patterns among people with HIV in Florida [under review]
2. Rich SN, **Liu Y** (co-first author), Fisk-Hoffman R, Zheng Y, Hu H, Spencer EC, Cook RL, Prosperi M. Spatial and temporal analysis of HIV clinical outcomes in Florida reveals counties with persistent racial and ethnic disparities during 2012-2019. [under review]
3. **Liu Y**, Parisi C (co-first author), Sun C, Fisk-Hoffman R, Salemi M, Viteri D, Prosperi M, Marini S. Behavioral and demographic profiles of HIV contact networks in Florida [under review]
4. **Liu Y**, Wang M, Feng Z, Bian J, Prosperi M. Does pharmacologic treatment of anxiety and depression decrease the chance of unemployment in people living with HIV? A cautionary tale of data, causal assumptions, and machine learning [under review]
5. Fitzgerald ND, **Liu Y**, Wang A, Striley CW, Setlow B, Knackstedt L, Cottler LB. Sequencing hour-level temporal patterns of polysubstance use among persons who use cocaine, alcohol, and marijuana [under review]
6. Siddiqi KA, Cook C, Candidate S, Bhagwat S, **Liu Y** (second-to-the-last), Cook RL. Clinicians' Perspectives Towards a Future EHR-Based Clinical Decision Support (CDS) Tool for HIV PrEP Practices [in preparation]
7. Candidate S, Gracy H, McIntosh S, **Liu Y**, Rich S, Fisk-Hoffman R, Mavian C, Cook RL, Prosperi N, Salemi M. Assessing the Acceptability, Implementation, and Usability of PRIDE, a Developing HIV Molecular Surveillance Tool in Florida: A Qualitative Study of Key Stakeholders in HIV Treatment and Prevention [under review]
8. Acebal N, Fisk-Hoffman R, Liu Y, Parisi C, Manavalan P, Somboonwit C, Bilello L, Widmeyer M, Conde A Prosperi M, Cook RL. Long-Acting Antiretroviral Therapy Interest and Characteristic Importance among People with HIV in Florida [under review]

9. Fisk-Hoffman R, Liu Y, Widmeyer M, Somboonwit C, Prosperi M, Cook RL. Who wants Long-Acting Injectable Antiretroviral Therapy? Treatment Preferences among Adults with HIV in Florida [under review]
10. Liu Y, Fisk-Hoffman R, Patel M, Cook RL, Prosperi M. Uptake of long-acting injectable antiretroviral therapy in Florida: An assessment of EHR data [in preparation]

PRESENTATIONS/CONFERENCE ABSTRACTS

1. **Liu Y**, Striley CW, Cottler LB. The association between different patterns of non-medical use of stimulants and motivations for use. **Poster** presentation at College on Problems of Drug Dependence 79th Annual Scientific Meeting in Montréal, Canada (CPDD 2017) & **Oral** presentation at Center for Addiction Research and Education (CARE) Pre-Meetings Data Blitz (2017)
2. Cottler LB, **Liu Y**, Striley CW, Setlow B, Knackstedt L. Typologies of female cocaine and marijuana use rely on transitions from initiation, to 1st symptom, to heaviest Use. **Oral** presentation at College on Problems of Drug Dependence 79th Annual Scientific Meeting in Montréal, Canada (CPDD 2017)
3. Elliott A, Hu H, Striley CW, **Liu Y**, Cottler LB. Research Willingness Typologies and Drug Use Status. **Poster** presentation at American Public Health Association (APHA 2017)
4. **Liu Y**, Elliott A, Crooke H, Cottler LB. Polysubstance Use Patterns Among Cocaine Users: A Latent Class Analysis of a North Florida Community Sample. **Poster** presentation at American College of Epidemiology annual conference (ACE 2017)
5. **Liu Y**, Elliott A, Ball J, Jacobs-Elliott M, Nicolette G. Social epidemiology of cocaine use disorder in the Gator Nation. **Oral** presentation at University of Florida Social Justice Summit, social epidemiology symposium (2018)
6. **Liu Y**, Elliott A, Strelnick H, Bennett M. N, Aguilar-Gaxiola S, Piechowski P, Cottler LB. Asian Americans are less willing to participate in health research than other racial groups. **Poster** presentation at University of Florida Diversity Day (2018)
7. **Liu Y**, Johnson M, Setlow B, Cottler LB. Cannabis use increases cocaine dependence in female cocaine users but does not increase its progression speed. **Poster** presentation at University of Florida College of Medicine & College of Public Health and Health Professions Research day (**Second Place Winner for Public Health Abstract, 2018**) & **Poster** presentation at College on Problems of Drug Dependence 80th Annual Scientific Meeting in San Diego, CA (CPDD 2018)
8. Otufowora A, **Liu Y**, Khan S, Striley CW, Cottler LB. Current use of alcohol and marijuana among people with anxiety, depression, neither or both. **Poster** presentation at

College on Problems of Drug Dependence 80th Annual Scientific Meeting in San Diego, CA (CPDD 2018)

9. **Liu Y**, Nathan ND, Lloyd SL, Vaddiparti K, Striley CW, Cottler LB. Past 30 day oral and non-oral prescription stimulant use and associated risk factors among youth aged 10-18 years old. **Poster** presentation at College on Problems of Drug Dependence 81st Annual Scientific Meeting in San Antonio, TX (CPDD 2019)
10. Striley CW, Johnson ME, **Liu Y**, Smith ND, Vaddiparti K, Cottler LB. Diversion of prescription stimulant drugs among 10-17-year-olds. **Poster** presentation at College on Problems of Drug Dependence 81st Annual Scientific Meeting in San Antonio, TX (CPDD 2019)
11. Cottler LB, Johnson ME, **Liu Y**, Smith ND, Vaddiparti K, Striley CW. A recent six-city study of prescription stimulant use and misuse among 10 to 17 year olds. **Poster** presentation at College on Problems of Drug Dependence 81st Annual Scientific Meeting in San Antonio, TX (CPDD 2019)
12. Cottler LB, Johnson ME, Chaudhari PV, **Liu Y**, Smith ND, Vaddiparti K, Striley CW. The study of non-oral administration of prescription stimulants (SNAPS): A six-city study of use, misuse and diversion among 10-17-year-olds. **Poster** presentation at American Psychiatric Association Annual Meeting in San Francisco, CA (APA 2019)
13. Striley CW, **Liu Y**, Cottler LB. Stimulant related irritability-like symptoms are associated with disruptive behaviors among nonmedical prescription stimulant users. **Poster** presentation at World Psychiatric Association Annual Meeting (WPA 2019)
14. **Liu Y**, Vaddiparti K, Cheong J, Cottler LB. Relationship between DSM-5 cocaine use disorder and quantity, frequency, and duration of cocaine use during the period of heaviest use. **Poster** presentation at College on Problems of Drug Dependence 82nd Annual Scientific Meeting (virtual, CPDD 2020)
15. Varma D, **Liu Y**, Striley CW, Knackstedt L, Setlow B, Cottler LB. Eliciting information on patterns of poly substance use to guide development of rodent models: Phase 1 of a R21/R33 trial. **Poster** presentation at College on Problems of Drug Dependence 82nd Annual Scientific Meeting (virtual, CPDD 2020)
16. Varma D, **Liu Y**, Striley CW, Setlow B, Knackstedt L, Cottler LB. Frequency and patterns of polysubstance use among adults: Findings from a Focus Group that guide development of rodent models for translational research. **Poster** presentation & **Published Abstract**. Journal of Clinical and Translational Science. Volume 4, Issue s1. Pages 132-133 (2021). DOI: <https://doi.org/10.1017/cts.2020.393>
17. **Liu Y**, Richards VL, Gebru N, Spencer EC, Cook RL. Associations amongst form of cocaine used (powder vs crack vs both) and HIV-related outcomes. **Poster** presentation at

College on Problems of Drug Dependence 83rd Annual Scientific Meeting (virtual, CPDD 2021)

18. Wang A, Fitzgerald ND, **Liu Y**, Cottler LB. Polysubstance use among cocaine users: an examination of combination patterns between weekday and weekend use. **Poster** presentation at College on Problems of Drug Dependence 83rd Annual Scientific Meeting (virtual, CPDD 2021)
19. **Liu Y**, Siddiqi KA, Cook RL, Squires PJ, Bian J, Shenkman EA, Prospero M. Optimizing identification of people living with HIV from electronic medical records. **Poster** presentation at Society for Epidemiologic Research Annual Meeting (virtual, SER 2021)
20. Fitzgerald ND, **Liu Y**, Wang A, Striley CW, Setlow B, Knackstedt L, Cottler LB. Sequencing temporal patterns of polysubstance use among persons who use cocaine, alcohol, and marijuana: a back-translational approach to inform rodent models. Poster presentation at World Psychiatric Association Annual Meeting (WPA 2021)
21. Fitzgerald ND, **Liu Y**, Wang A, Striley CW, Setlow B, Knackstedt L, Cottler LB. Sequencing temporal patterns of polysubstance use among persons who use cocaine, alcohol, and marijuana: a back-translational approach to rodent models. Oral presentation at the 2022 UF College of Public Health and Health Professions Research Day, virtual (2022).
22. Fitzgerald ND, **Liu Y**, Wang A, Striley CW, Setlow B, Knackstedt L, Cottler LB. Week-level concurrent alcohol and marijuana polysubstance use patterns among persons who use cocaine: a sequence analysis approach. Poster to be presented at the American Psychopathological Association 2022 Annual Meeting, virtual (APPA 2022).
23. Wang A, Fitzgerald ND, **Liu Y**, Striley CW, Setlow B, Knackstedt L, Cottler LB. Distinguishing differences in polysubstance use by sex among persons who use cocaine. Abstract submitted to the College of Problems on Drug Dependence Annual Scientific Meeting, Minneapolis, MN (CPDD 2022).
24. **Liu Y**, Manavalan P, Siddiqi KA, Cook RL, Prospero M. Comorbidity burden and health care utilization among people with HIV and substance use disorder. Oral presentation at the College on Problems of Drug Dependence Annual Scientific Meeting, Minneapolis, (CPDD 2022)
25. **Liu Y**, Siddiqi K, Cook RL, Park H, Prospero M. Identification of HIV PrEP users in Florida using an electronic health records-/claim- based computable phenotype. Poster presentation at the AMIA 2023 Clinical Informatics Conference, Chicago, IL.
26. **Liu Y**, Parisi C, Fisk-Hoffman R, Salemi M, Viteri D, Prospero M, Marini S. Behavioral and demographic profiles of HIV contact networks in Florida. Oral presentation at the International Conference on Intelligent Biology and Medicine (ICIBM 2023), Tampa, FL.

27. Liu Y, Fisk-Hoffman R, Patel M, Cook RL, Prosperi M. Examine uptake of long-acting injectable antiretroviral therapy from EHR data. Poster presentation at the Conference on Retroviruses and Opportunistic Infections (CROI 2024), Denver, Colorado

EDITORIAL RESPONSIBILITIES

Ad hoc Review

Substance use field: Drug and Alcohol Dependence, Addiction, Substance Abuse, Psychoactive Drugs, American Journal on Addictions, Substance Use & Misuse, Journal of Drug Issues, Frontiers Psychiatry, Alcohol and Alcoholism; npj Mental Health Research

HIV field: AIDS and Behavior

Data science field: Journal of the American Medical Informatics Association (JAMIA), JAMIA Open, BMC Supplements

Epidemiology and public health in general: Annals of Epidemiology, Family Medicine and Community Health Journal, PLOS One, Journal of Medicine Access, Journal of American College Health

COMMITTEE & MEMBERSHIPS

2017- 2020	Committee, Diagnostic Interview Schedule for DSM 5 (DIS-5)
2017- 2020	Committee, Substance Abuse Module for DSM 5 (SAM-5)
2019- 2020	Affiliate Member, UF Center for Addiction Research & Education (CARE)
2019- 2020	Student Chapter Officer (Epi-liaison), International Society for Pharmacoepidemiology (ISPE) University of Florida Chapter
2020-present	Member, Society for Epidemiologic Research (SER)
2020-present	Member, Southern HIV & Alcohol Research Consortium (SHARC) University of Florida, Gainesville, FL
2023-present	Member, American Medical Informatics Association (AMIA)
2023	Regular Membership, International Association for Intelligent Biology and Medicine
2023-present	Member, College on Problems of Drug Dependence (CPDD)

SKILLS

Languages	Mandarin, English
Programming	SAS, SQL, R, M-Plus, Python