

# CURRICULUM VITAE

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## EDUCATION AND TRAINING

### Undergraduate

1999-2003	Brown University Providence, RI	Sc.B., 2003	Environmental Science, focus in Environmental Health
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### Graduate

2003-2005	University of Washington Seattle, WA	MPH, 2005	Epidemiology
2005-2009	University of Michigan Ann Arbor, MI	Ph.D., 2009	Epidemiology

### Post-Graduate

2009	University of Michigan Center for Social Epidemiology and Population Health, Ann Arbor, MI	Postdoctoral Fellow	Ana Diez Roux, Program Director, Epidemiology
2010-2012	University of California Berkeley School of Public Health Berkeley, CA	NIAAA Postdoctoral Fellowship	Paul Gruenewald and Carol Cunradi, Prevention Research Center, Mentors

## APPOINTMENTS AND POSITIONS

### Academic

2013-	Assistant Professor	Department of Behavioral and Community Health Sciences, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA
2016-	Secondary Appointment	University of Pittsburgh Clinical and Translational Sciences Institute
2017-	Director	Center for Social Dynamics and Community Health University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA

### Non-Academic

2010-2015	Research Scientist & Associate Research Scientist	Prevention Research Center, Pacific Institute for Research and Evaluation, Oakland, CA
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## MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2007 -	Society for Epidemiologic Research
2010 -	Research Society on Alcoholism
2009 - 2013	American Association of Geographers
2010 - 2012	Society for Prevention Research

## HONORS

2018	Invited Participant Leadership Academy for Early Career Faculty University of Pittsburgh Schools of the Health Sciences
2017	Nominee Chancellor's Award for Research, Junior Scholar University of Pittsburgh

2017	Innovation in Education Award University of Pittsburgh
2012	Junior Investigator Award Research Society on Alcoholism
2011	Invited Participant NIH Institute on Systems Science and Health (ISSH)
2007	Rackham Travel Grant University of Michigan
2007	Invited Participant Society for Epidemiologic Research Student Methods Workshop
2003	Departmental Honors Brown University
2000	Division I National Champion Women's Crew NCAA

**University of Pittsburgh Affiliations**

Center for Social Dynamics & Community Health  
(Director)  
Public Health Dynamics Lab  
Center for Health Equity  
Opioid Research Interest Group  
University Center for Social and Urban Research

## PROFESSIONAL ACTIVITIES

### 1. Teaching

#### a. Courses Taught

<b>Years Taught</b>	<b>Course Number: Title</b>	<b>Hours of Lecture, credits Average Enrollment</b>	<b>Role in course Primary/Coordinator</b>
2015-2018	BCHS 3015: Community Mapping and Introductory Spatial Analysis	Credits and Hours of Lecture per week: 3 Average Enrollment: 20	Primary Instructor

<b>Years Taught</b>	<b>Course Number: Title</b>	<b>Hours of Lecture, credits Average Enrollment</b>	<b>Role in course Primary/Coordinator</b>
2017-2018	BCHS 2991: Multilevel Analysis in Public Health	Credits and Hours of Lecture per week: 1, 3/week for 5 weeks Average Enrollment: 11	Co-Primary Instructor
2018	BCHS 2992: Systems Theories and Approaches	Credits and Hours of Lecture per week: 1, 3/week for 5 weeks Enrollment: 23	Co-Primary Instructor
2018	BCHS 2511 (Independent Study): Multilevel Analysis	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor
2018	BCHS 2511 (Independent Study): Agent-Based Modeling and Social Network Analysis	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor
2017	BCHS 2511 (Independent Study): Advanced Spatial Analysis	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor
2016	BCHS 2511 (Independent Study): Exploring the association between women's access to economic resources and intimate partner violence and gender attitudes using a population-based dataset	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor
2015	BCHS 2511 (Independent Study): Spatial Analysis and Multilevel Modeling	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor

<b>Years Taught</b>	<b>Course Number: Title</b>	<b>Hours of Lecture, credits Average Enrollment</b>	<b>Role in course Primary/Coordinator</b>
2014	BCHS 2511 (Independent Study): Middle Level Theory: Explaining Health and Informing Interventions	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor
2014	BCHS 2511 (Independent Study): Agent-Based Modeling and Analytic Sociology	Credits and Hours of Lecture per week: 1 Enrollment: 1	Primary Instructor
2008	Introduction to Epidemiology	Credits and Hours of Lecture per week: 3 Enrollment: 100	Graduate Student Instructor
2007	Principles and Methods of Epidemiology	Credits and Hours of Lecture per week: 3 Enrollment: 70	Graduate Student Instructor
2005	Epidemiologic Data Analysis	Credits and Hours of Lecture per week: 2 Enrollment: 25	Teaching Assistant

**b. Other Teaching** (lectures, tutorials and continuing education courses)

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
2017, 2018	Guest Lecture, Social and Behavioral Sciences and Public Health	Methods to Study Social Dynamics in Public Health
2018	Guest Lecture, Special Studies in Spatial Analysis	Multiscale analyses of alcohol outlets and crime reports in Oakland, CA
2018	Guest Lecture, Special Studies in Spatial Analysis	Spatial Data in Public Health
2014, 2016-2018	Guest Lecture, Social Epidemiology	Social Epidemiology: Key study designs

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
2018	Guest Lecture, Applied Multiple Regression Analysis and Causal Modeling for Behavioral and Community Health Sciences	Everything you ever wanted to know about spatial analysis
2015, 2016, 2018	Guest Lectures, Integrative Research Seminar: Grant Writing	Drafting Specific Aims; Critiquing Grant
2017, 2018	Guest Lecture, Introduction to Community Health	Methods to Study Social Dynamics in Public Health
2014, 2016, 2017	Guest Lecture, Introduction to Applied Research	Mixed Methods Approaches in Public Health Research
2016, 2017	Guest Lecture, Introduction to Systems Thinking	Methods to Study Social Dynamics in Public Health
2015, 2016	Guest Lecture, Doctoral Seminar on Paper Writing	
2013, 2014	Guest Lecture, Introduction to Community Health	Model-based approaches to public health research & intervention development
2014	Guest Lecture, Introduction to Theories	Applying a social ecological perspective to social epidemiology research

## **2. Research and Training**

### **a. Grants and Contracts Received**

**Principal Investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2018 -	Framework for Behavioral Risk Models of Alcohol Problems (5P60AA006283-37)	NIH-NIAAA	\$304,074	30%
2017 - 2018	Can Access to Medical Cannabis Dispensaries Change Patterns of Opioid Overdose Deaths?	University of Pittsburgh CTSI Pain Research Challenge	\$40,000	8%
2016 -	Explaining Local Impacts of Off-Premise Alcohol Outlets on Problems (R01AA024759)	NIH-NIAAA	\$217,205	40%
2018	I-Corps: A Wearable, Biomarker-Tracking Device Platform Using Machine Learning and Predictive Technology for Positive Behavior Change. Award #1850040	National Science Foundation	\$50,000	Donated
2017	Teaching Multilevel Statistical Modeling with Innovative Educational Technologies	University of Pittsburgh Innovation in Education	\$4,781	2%
2013-2017	Dose-Response and Context-Specific Sexual Risks amongst College Students (R21AA021438)	NIH-NIAAA	\$118,750	40%
2014-2016	Adolescent girls' substance use-related problems and contexts of use	Center for Research Development Funds, University of Pittsburgh	\$15,000	Donated

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2015-2016	Social ecological contexts of opioid use and overdose in Pennsylvania: A mixed methods study	Dean's Pilot Grant Program on Advancing Research on Opioid Drug and Heroin Addiction, University of Pittsburgh	\$24,150	Donated
2014-2015	Teen Dating Violence Prevention: A Pilot Study	Center for Health Equity, University of Pittsburgh	\$2,500	Donated

**Co-Principal Investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2014-2015	IOTAS: It's OK To Ask Someone! A Sexual Health Textline and Millennial Peer Education Tool	Clinical & Translational Science Institute	\$25,000	Donated

**Co-Investigator on Grants**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2017 - 2018	School-Based Health Clinics: Effects on Youth and Young Adult Sexual Behavior	NIH-NICHD	\$74,322	5%
2018 -	Machine Learning and Opioid Overdoses	Richard King Mellon Foundation	\$12,941	5%



<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2018	PA Opioid Dashboard	State of PA from the Aetna Foundation	\$12,941	5%
2016 – 2018	Identifying Ecologically Valid Intervention Opportunities to Reduce Opioid Injection Drug Use in Southwestern Pennsylvania (R03DA043373)	NIH-NIDA	\$100,000	10%
2016 - 2019	Impacts of Off-Premise Alcohol Outlets on Local Neighborhood Alcohol Problems (R01AA023085)	NIH-NIAAA	\$228,718	15%
2012-2015	Environmental Approaches to Prevention (P60AA006282)	NIH-NIAAA	\$1,621,026	20%
2015 - 2017	School-based Health Clinics: Effects on Youth and Young Adult Sexual Behavior (R01HD073386)	NIH-NICHD	\$432,303	15%
2012 - 2015	Community Alcohol Outlet Density, Drunken Driving and Violence: Core Group Theory (R01AA019773)	NIH-NIAAA		20%
2016 -	Environmental Drinking Contexts & Intimate Partner Violence (R01AA022990)	NIH-NIAAA	\$414,589	Consultant

**b. Invited Lectureships and Major Seminars Related to Your Research**

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
January 2019	The importance of multi-resolution spatial modeling approaches in public health	Coffee & Collaboration, Department of Biostatistics, University of Pittsburgh
October 2018	Applying a Behavioral Modeling framework to alcohol-related problems in community settings	Modeling of Social Dynamics & Health Behavior Conference, University of Pittsburgh

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
May 2018	Environmental approaches to prevention: Theories, mechanisms, models, new directions	Public Health Dynamics Seminar, University of Pittsburgh
May 2018	Panel Presentation: Modeling Urban Systems	Modeling the World's Systems Conference, University of Pittsburgh
April 2018	Using Agent-Based Models to Understand Community Social Ecologies	Modeling Anarchy, Governance, and Technological Problems Using Agent Based Modeling conference, University of Pittsburgh
March 2018	Using Agent-Based Models to Understand Community Social Ecologies	Computational Social Science retreat, University of Pittsburgh
February 2018	Designing and Evaluating a Hybridized Course for Multilevel Analysis in Public Health	Teaching Partners meeting, University Center for Teaching and Learning, University of Pittsburgh
June 2017	Can agent-based modeling approaches help us reduce alcohol-related problems in community settings?	Center for the Study of Health and Risk Behaviors, University of Washington
February 2017	Social Ecological Contexts of Opioid Use and Overdose in Pennsylvania	Graduate School of Public Health Grand Rounds presentation, University of Pittsburgh
October 2016	Social Ecological Contexts of Opioid Use and Overdose in Pennsylvania	Pennsylvania Department of Health (PADOH) Public Health Seminar
October 2016	Sexual violence on college campuses: The impacts of alcohol consumption, drinking contexts, and co-use of marijuana (and some thoughts about environmental prevention)	Public Health Dynamics Seminar, University of Pittsburgh

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
June 2016	Can Environmental Prevention Play a Role in Reducing Sexual Assault on College Campuses?	NIAAA Working Group on Intervention Development for Alcohol-Related Sexual and Intimate Partner Violence, RSA Satellite Meeting
May 2016	Social Ecological Contexts of Opioid Use and Overdose in Pennsylvania: A Mixed Methods Study	Graduate School of Public Health Board of Visitors meeting, University of Pittsburgh
January 2016	Modeling Social Mechanisms of Substance Use & Related Problems: Methods to Determine Effective Loci for Prevention	Penn State Methodology Center
November 2015	Reducing sexual violence among college students: Prospects for context-specific interventions	Reducing Dangerous and Underage Drinking: Innovative Solutions for the Millennial Generation conference, University of Pittsburgh
September 2015	Impacts of Marijuana Dispensaries on Local Communities	Sloan Symposium, Carnegie Mellon University
December 2014	Reducing risky sex among college students: Prospects for context-specific interventions	University of Pittsburgh Department of Epidemiology Seminar Series
February 2014	Drinking contexts & high risk sexual behaviors	NIAAA Workshop to Consider Next Steps in HIV Preventive Intervention Development
October 2013	Varying impacts of alcohol outlet densities on violent assaults	Drexel School of Public Health Department of Epidemiology/Biostatistics Seminar and Mini-Symposium
September 2013	The social ecology of alcohol use and related problems	Public Health Dynamics Seminar, University of Pittsburgh
June 2013	Connecting social epidemiology and social ecology	Social Ecology of Alcohol Use Satellite Meeting, Research Society on Alcoholism

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
April 2013	Social ecology of substance use	Environment, Molecules and Population Health seminar, Columbia University
February 2013	The social ecology of substance use: Model-based approaches to identify mechanisms	Behavioral and Community Health Sciences seminar, University of Pittsburgh
January 2011	The associations of neighborhood social and physical conditions with depressive symptoms	Happy People, Happy Places conference, McGill University
October 2010	The associations of neighborhood social and physical conditions with depressive symptoms	Prevention Research Center Postdoctoral seminar
June 2007	Neighborhood characteristics and change in depressive symptoms: To condition on baseline or not to condition on baseline?	Society for Epidemiologic Research Student Workshop
October 2006	Whether or not to condition on baseline when using a change score	Center for Social Epidemiology and Population Health research meeting, University of Michigan

**c. Major Conferences Developed and Co-Chaired Related to Your Research**

<b>Date</b>	<b>Title of Conference</b>	<b>Venue</b>
October 2018	Modeling of Social Dynamics & Health Behavior Conference	University of Pittsburgh University Club
December 2019	Challenges in Mathematical and Computational Modeling of Complex Systems	Banff International Research Station for Mathematical Innovation and Discovery (BIRS)

**PUBLICATIONS**

## 1. Refereed Articles (\* indicates student publication; \*\* indicates Senior authored publication)

1. \* Coulter RWS, Egan JE, Kinsky S, Friedman MR, Eckstrand KL, Frankeberger J, Folb BL, **Mair C**, Markovic N, Silvestre AJ, Stall R, Miller E. Mental health, drug, and violence interventions for sexual/gender minorities: A systematic review. *Pediatrics*. In Press.
2. \* Liu SJ, **Mair C**, Songer TJ, Krans E, Wahed A, Talbott E. Opioid-related hospitalizations in Pennsylvania: a latent class analysis. *Drug and Alcohol Dependence*. In Press.
3. \* White GE, **Mair C**, Richardson GE, Courcoulas AP, King WC. Alcohol use among adults, by weight status and weight loss attempt: 2011-2016 NHANES. *American Journal of Preventive Medicine*. In Press.
4. Goldstick J, Zeoli A, **Mair C**, Cunningham R. Trends in firearm mortality in the United States, 1999-2017: differences across states and sub-populations. *Health Affairs*. In Press.
5. \* Stacy SL, Buchanich JM, Ma ZQ, **Mair C**, Robertson L, Sharma RK, Talbott EO, Yuan JM. Maternal obesity, birth size, and risk of childhood cancer development. *American Journal of Epidemiology*. In Press.
6. \* White GE, Richardson GA, **Mair C**, Courcoulas AP, King WC. Do associations between alcohol use and alcohol use disorder vary by weight status? Results from the National Epidemiological Survey on Alcohol and Related Conditions-III. *Alcoholism: Clinical and Experimental Research*. In Press.
7. Caetano R, Cunradi CB, Alter HJ, **Mair C**, Yau RK. Drinking and intimate partner violence severity levels among US ethnic groups in an urban emergency department. *Academic Emergency Medicine*. In Press.
8. \* White GE, Courcoulas AP, Richardson GA, **Mair C**, King WC. Alcohol use thresholds for identifying alcohol-related problems before and following Roux-en-Y gastric bypass. *Annals of Surgery*. 2019; 269(6):1001-1009.
9. Gruenewald PJ, **Mair C**. Heterogeneous dose-response analyses of alcohol abuse and dependence. *Alcoholism: Clinical and Experimental Research*. 2019; 43(2): 299-308.
10. \*\* Proulx CN, Coulter RWS, Egan JE, Matthews DD, **Mair C**. Associations of Lesbian, Gay, Bisexual, Transgender, and Questioning-inclusive sex education with mental health outcomes and school-based victimization in U.S. high school students. *Journal of Adolescent Health*. 2019; 64(5):608-614.
11. **Mair C**, Sumetsky N, Burke JG, Gaidus A. Investigating the social ecological contexts of opioid use disorder and poisoning hospitalizations in Pennsylvania. *Journal of Studies on Alcohol and Drugs*. 2018; 79(6): 899-908.
12. Blosnich JR, Cassese EC, Friedman MR, Coulter RWS, Sang JM, Matthews DD, **Mair C**. Religious Freedom Restoration Acts and sexual minority population health. *American Journal of Orthopsychiatry*. In Press.

13. \* Coulter RWS, Jun H-J, Calzo JP, Truong NL, **Mair C**, Markovic N, Charlton BM, Silvestre AJ, Stall R, Corliss HL. Sexual-orientation differences in alcohol use trajectories and disorders in emerging adulthood: Results from a longitudinal cohort study in the United States. *Addiction*. 2018; 113(9):1619-1632.
14. Bersamin M, Coulter RWS, Gaarde J, Garbers S, **Mair C**, Santelli J. School based health centers and school connectedness. *Journal of School Health*. 2019; 89(1):11-19.
15. Rhew IC, Kosterman R, Duncan GE, **Mair C**. Examination of cross-sectional associations of neighborhood deprivation and alcohol outlet density with hazardous drinking using a twin design. *Journal of Studies on Alcohol and Drugs*. 2018; 79(1):68-73.
16. \*\* Coulter RWS, Bersamin M, Russell ST, **Mair C**. The effects of gender- and sexuality-based harassment on lesbian, gay, bisexual, and transgender substance use disparities. *Journal of Adolescent Health*. 2018;62(6):688-700.
17. \* Coulter RWS, **Mair C**, Miller E, Blosnich JR, Matthews DD, McCauley HL. Prevalence of past-year sexual assault victimization among undergraduate students: exploring differences by and intersections of gender identity, sexual identity, and race/ethnicity. *Prevention Science*. 2017; 18(6):726-736.
18. \* O'Malley TL, Horowitz KR, Garth J, **Mair C**, Burke JG. A technology-based peer education intervention: Results from a sexual health textline feasibility study. *American Journal of Sexuality Education*. 2017; 6:1-2.
19. Lipperman-Kreda S, Gruenewald PJ, Bersamin M, **Mair C**, Grube JW. Adolescent drinking in different contexts: What behaviors do parents control? *Addictive Behaviors Reports*. 2017;6:39-44.
20. Bersamin M, Lipperman-Kreda S, **Mair C**, Grube J, Gruenewald P. Identifying strategies to limit youth drinking in the home. *Journal of Studies on Alcohol and Drugs*. 2016;77(6):943-949.
21. Gruenewald PJ, Wang-Schweig M, **Mair C**. Sources of misspecification bias in assessments of risks related to alcohol use. *Journal of Studies on Alcohol and Drugs*. 2016;77(5):802-810.
22. Moore KA, Hirsch JA, August C, **Mair C**, Sanchez BN, Diez Roux AV. Neighborhood Social Resources and Depressive Symptoms: Longitudinal Results from the Multi-Ethnic Study of Atherosclerosis. *Journal of urban health*. 2016; 93(3):572-88.
23. \*\* Coulter RW, Marzell M, Saltz R, Stall R, **Mair C**. Sexual-orientation differences in drinking patterns and use of drinking contexts among college students. *Drug and Alcohol Dependence*. 2016; 160(1):197-204.
24. Lipperman-Kreda S, Grube JW, Friend KB, **Mair C**. Tobacco outlet density, retailer cigarette sales without ID checks and enforcement of underage tobacco laws: associations with youths' cigarette smoking and beliefs. *Addiction*. 2016; 111(3):525-532.

25. Morrison C, Lee JP, Gruenewald PJ, **Mair C**. The reliability of naturalistic observations of social, physical and economic environments of bars. *Addiction Research & Theory*. 2016; 24(40):330-340.
26. **Mair C**, Ponicki WR, Gruenewald PJ. Reducing risky sex among college students: Prospects for context-specific interventions. *AIDS and Behavior*. 2016;20(1):109-118.
27. Morrison C, Mair CF, Lee JP, Gruenewald PJ. Are barroom and neighborhood characteristics independently related to local-area assaults? *Alcoholism: Clinical and Experimental Research*. 2015; 39(12):2463-2470.
28. **Mair C**, Freisthler B, Ponicki WR, Gaidus A. The impacts of marijuana dispensary density and neighborhood ecology on marijuana abuse and dependence. *Drug and Alcohol Dependence*. 2015; 154:111-116.
29. **Mair C**, Lipperman-Kreda S, Gruenewald PJ, Bersamin M, Grube JW. Adolescent drinking risks associated with specific drinking contexts. *Alcoholism: Clinical and Experimental Research*. 2015; 39(9):1705-1711.
30. Marzell M, Bavarian N, Paschall MJ, **Mair C**, Saltz RF. Party characteristics, drinking settings, and college students' risk of intoxication: A multi-campus study. *The Journal of Primary Prevention*. 2015; 36(4):247-258.
31. Gruenewald PJ, **Mair C**. Heterogeneous dose-response and college student drinking: examining problem risks related to low drinking levels. *Addiction*. 2015; 110(6):945-954.
32. Lipperman-Kreda S, **Mair CF**, Bersamin M, Gruenewald PJ, Grube JW. Who drinks where: Youth selection of drinking contexts. *Alcoholism: Clinical and Experimental Research*. 2015; 39(4):716-723.
33. Marzell M, Morrison C, **Mair C**, Moynihan S, Gruenewald PJ. Examining drinking patterns and high-risk drinking environments among college athletes at different competition levels. *Journal of Drug Education*. 2015; 45(1):5-16.
34. **Mair C**, Diez Roux AV, Golden SH, Rapp S, Seeman T, Shea S. Change in neighborhood environments and depressive symptoms in New York City: The Multi-Ethnic Study of Atherosclerosis. *Health & Place*. 2015; 32:93-98.
35. Cunradi CB, Todd M, **Mair C**. Discrepant Patterns of Heavy Drinking, Marijuana Use, and Smoking and Intimate Partner Violence: Results from the California Community Health Study of Couples. *Journal of Drug Education*. 2015; 45(20):73-95.
36. Lipperman-Kreda S, **Mair C**, Grube JW, Friend KB, Jackson P, Watson D. Density and proximity of tobacco outlets to homes and schools: Relations with youth cigarette smoking. *Prevention Science*. 2014; 15(5):738-744.
37. Cunradi CB, **Mair C**, Todd M. Alcohol outlet density, drinking contexts and intimate partner violence: A review of environmental risk factors. *Journal of Drug Education*. 2014; 44:19-33.

38. **Mair C**, Cunradi CB, Gruenewald PJ, Todd M, Remer L. Drinking context-specific associations between intimate partner violence and frequency and volume of alcohol consumption. *Addiction*. 2013; 108(12):2102-2111.
39. Cunradi CB, Todd M, **Mair C**, Remer L. Intimate partner violence among California couples: Multilevel analysis of environmental and partner risk factors. *Partner Abuse*. 2013; 4(4):419-443.
40. **Mair C**, Gruenewald PJ, Ponicki WR, Remer L. Varying impacts of alcohol outlet densities on violent assaults: explaining differences across neighborhoods. *Journal of Studies on Alcohol and Drugs*. 2013; 74(1):50-58.
41. Laborde ND, **Mair C**. Alcohol use patterns among postpartum women. *Maternal and Child Health Journal*. 2012; 16(9):1810-9.
42. **Mair C**, Cunradi CB, Todd M. Adverse childhood experiences and intimate partner violence: testing psychosocial mediational pathways among couples. *Annals of Epidemiology*. 2012; 22(12):832-839.
43. Cunradi CB, **Mair C**, Todd M, Remer L. Drinking context and intimate partner violence: evidence from the California community health study of couples. *Journal of Studies on Alcohol and Drugs*. 2012; 73(5):731-739.
44. Cunradi CB, **Mair C**, Ponicki W, Remer L. Alcohol outlet density and intimate partner violence-related emergency department visits. *Alcoholism: Clinical and Experimental Research*. 2012; 36(5):847-853.
45. **Mair C**, Kaplan GA, Everson-Rose SA. Are there hopeless neighborhoods? An exploration of environmental associations between individual-level feelings of hopelessness and neighborhood characteristics. *Health & Place*. 2012; 18(2):434-439.
46. Cunradi CB, **Mair C**, Ponicki W, Remer L. Alcohol outlets, neighborhood characteristics, and intimate partner violence: ecological analysis of a California city. *Journal of Urban Health*. 2011; 88(2):191-200.
47. **Mair C**, Diez Roux AV, Morenoff JD. Neighborhood stressors and social support as predictors of depressive symptoms in the Chicago Community Adult Health Study. *Health & Place*. 2010; 16(5):811-819.
48. **Mair C**, Diez Roux AV, Osypuk TL, Rapp SR, Seeman T, Watson KE. Is neighborhood racial/ethnic composition associated with depressive symptoms? The multi-ethnic study of atherosclerosis. *Social Science & Medicine*. 2010; 71(3):541-550.
49. **Mair C**, Diez Roux AV, Shen M, Shea S, Seeman T, Echeverria S, O'Meara ES. Cross-sectional and longitudinal associations of neighborhood cohesion and stressors with depressive symptoms in the multiethnic study of atherosclerosis. *Annals of Epidemiology*. 2009; 19(1):49-57.
50. **Mair C**, Hawes SE, Agne HD, Sow PS, N'doye I, Manhart LE, Fu PL, Gottlieb GS, Kiviat NB. Factors associated with CD4 lymphocyte counts in HIV-negative Senegalese individuals. *Clinical and Experimental Immunology*. 2008; 151(3):432-440.



## 2. Review Articles

1. Auchincloss AH, Gebreab SY, **Mair C**, Diez Roux AV. A review of spatial methods in epidemiology, 2000-2010. *Annual Review of Public Health*. 2012; 33:107-122.
2. Diez Roux AV, **Mair C**. Neighborhoods and health. *Annals of The New York Academy of Sciences*. 2010; 1186:125-145.
3. **Mair C**, Diez Roux AV, Galea S. Are neighbourhood characteristics associated with depressive symptoms? A review of evidence. *Journal of Epidemiology and Community Health*. 2008; 62(11):940-946, 8 p. following 946.

## 3. Presentations

1. **Mair C**, Diez Roux AV, Echeverria S, O'Meara E, Seeman T, Shea S. Cross-sectional associations of neighborhood characteristics and depressive symptoms. Presented at: Society for Epidemiologic Research Annual Meeting; 2007 June; Boston, MA.
2. **Mair C**, Diez Roux AV, Morenoff JD. Neighborhood stressors and social support as predictors of depressive symptoms in the Chicago Community Adult Health Study. Presented at: Society for Epidemiologic Research Annual Meeting; 2009 June; Anaheim, CA.
3. **Mair C**, Diez Roux AV, Osypuk TL, Rapp SR, Seeman T. Neighborhood racial/ethnic composition and depressive symptoms. Poster presented at: Society for Epidemiologic Research Annual Meeting; 2009 June; Anaheim, CA.
4. **Mair C**, Kaplan GA, Everson-Rose SA. Neighborhoods and hopelessness. Poster presented at: Society for Epidemiologic Research Annual Meeting; 2010 June; Seattle, WA.
5. Gruenewald PJ, **Mair C**. Theoretical models and empirical explorations of crime and violence in relation to alcohol outlets. Presented at: American Society of Criminology Annual Meeting; 2010 November; San Francisco, CA.
6. **Mair C**, Gruenewald PJ. Addressing unit misalignment in Bayesian models of space-time data: A case study investigating disparities in low birth weight. Presented at: American Association of Geographers Annual Meeting; 2011 March; Seattle, WA.
7. Cunradi CB, **Mair C**, Ponicki W, Remer L. Alcohol outlet density and intimate partner violence-related emergency department visits. Poster presented at: Research Society on Alcoholism Annual Meeting; 2011 June; Atlanta, GA.
8. Laborde N, **Mair C**. Alcohol use and smoking patterns among postpartum women. Poster presented at: Research Society on Alcoholism Annual Meeting; 2011 June; Atlanta, GA.
9. **Mair C**, Gruenewald PJ. Environmental correlates of low birth weight racial/ethnic disparities in California. Poster presented at: Epidemiology Congress; 2011 June; Montreal, Canada.
10. **Mair C**, Gruenewald PJ. Ecological associations between alcohol outlet density and hospitalizations for violent assault injuries. Poster presented at: Epidemiology Congress; 2011 June; Montreal, Canada.
11. **Mair C**, Gruenewald PJ. An assessment of environmental correlates related to racial/ethnic disparities in low birth weight in California. Presented at: Society for Prevention Research Annual Meeting; 2011 June; Washington, DC.

12. **Mair C.** Varying impacts of alcohol outlet densities on violent assaults: Explaining differences across neighborhoods. Poster presented at: NIAAA T32 Training Directors Meeting and Trainee Workshop; 2011 September; Providence, RI.
13. Laborde N, **Mair C.** Alcohol use patterns among postpartum women. Poster presented at: NIAAA T32 Training Directors Meeting and Trainee Workshop; 2011 September; Providence, RI.
14. Cunradi CB, **Mair C,** Todd M, Remer L. Drinking context and intimate partner violence: Evidence from the California Community Health Study of Couples. Poster presented at: Research Society on Alcoholism Annual Meeting; 2012 June; San Francisco, CA.
15. Cunradi CB, Todd M, **Mair C,** Remer L. Intimate partner violence among California couples: Alcohol outlets, drinking, and partner characteristics. Poster presented at: Research Society on Alcoholism Annual Meeting; 2012 June; San Francisco, CA.
16. **Mair C,** Cunradi CB, Todd M. Do psychosocial characteristics and intoxication frequency mediate the relationship between adverse childhood experiences and intimate partner violence? Poster presented at: Research Society on Alcoholism Annual Meeting; 2012 June; San Francisco, CA.
17. Bavarian N, Marzell M, Paschall MJ, **Mair C,** Saltz RF. Do all college parties pose the same risk? An examination of the relationship between high-risk drinking environments and party characteristics using a multi-campus study. Poster presented at: Society for Prevention Research Annual Meeting; 2013 May; Washington, DC.
18. Marzell M, Morrison C, **Mair C,** Gruenewald PJ. Do all athletes drink the same? Examining college athlete drinking patterns. Poster presented at: Research Society on Alcoholism Annual Meeting; 2013 June; Orlando, FL.
19. Cunradi CB, **Mair C,** Remer L. Facebook recruitment of young couples for drinking & intimate partner violence research: Pilot study results. Poster presented at: Research Society on Alcoholism Annual Meeting; 2013 June; Orlando, FL.
20. **Mair C,** Cunradi CB, Gruenewald PJ, Todd M, Remer L. Drinking context-specific associations between intimate partner violence and frequency and volume of alcohol consumption. Poster presented at: Research Society on Alcoholism Annual Meeting; 2013 June; Orlando, FL.
21. Lipperman-Kreda S, **Mair C,** Gruenewald PJ, Bersamin M, Grube JW. Who drinks where: The distribution of drinking in particular contexts among youths. Presented at: Kettil Bruun Society Annual Meeting; 2014 June; Torino, Italy.
22. **Mair C,** Lipperman-Kreda S, Gruenewald PJ, Bersamin M, Grube JW. Drinking context-specific associations between youth alcohol consumption and related problems. Presented at: Kettil Bruun Society Annual Meeting; 2014 June; Torino, Italy.
23. **Mair C,** Lipperman-Kreda S, Gruenewald PJ, Bersamin M, Grube JW. Drinking context-specific associations between frequency and volume of youth alcohol use and related negative outcomes. Presented at: Research Society on Alcoholism Annual Meeting; 2014 June; Seattle, WA.
24. Lipperman-Kreda S, **Mair C,** Gruenewald PJ, Bersamin M, Grube JW. Who drinks where: The distribution of drinking in particular contexts among youths. Presented at: Research Society on Alcoholism Annual Meeting; 2014 June; Seattle, WA.
25. Cunradi C, Todd M, **Mair C.** Discrepant patterns of drinking, smoking, and marijuana use and intimate partner violence: Results from the California Community Health Study of Couples. Poster presented at: Research Society on Alcoholism Annual Meeting; 2014 June;

Seattle, WA.

26. Lee JP, Morrison C, Gruenewald PJ, Antin TM, **Mair C**. Bar types: Characterizing bars as risk environments versus drinking contexts. Poster presented at: Research Society on Alcoholism Annual Meeting; 2014 June; Seattle, WA.
27. Morrison C, Lee JP, **Mair C**, Gruenewald PJ. The social environment of barrooms as a predictor of assault. Poster presented at: Research Society on Alcoholism Annual Meeting; 2014 June; Seattle, WA.
28. Coulter RWS, Marzell M, Saltz R, Stall R, **Mair C**. Sexual-orientation differences in drinking patterns and contexts of use among college students. Paper presented at: Reducing Dangerous & Underage Drinking: Innovative Solutions for the Millennial Generation; 2015 November; Pittsburgh, PA.
29. Coulter RWS, Bersamin M, Russell S, **Mair C**. Sexuality- and gender-biased bullying victimization partially explains substance use disparities for LGBT adolescents. Paper presented at: Society for Research on Adolescence Biennial Meeting; 2016 March; Baltimore, MD.
30. Lipperman-Kreda S, Bersamin M, Gruenewald PJ, Grube J, **Mair C**. Adolescents, Alcohol and Marijuana: Specific Contexts and Specific Problems. Presented at: Research Society on Alcoholism Annual Meeting; 2016 June; New Orleans, LA.
31. **Mair C**, Gruenewald PJ, Freisthler B. Sexual Violence Victimization and Perpetration On College Campuses: The Impacts Of Drinking Contexts and Co-Use Of Marijuana. Presented at: Research Society on Alcoholism Annual Meeting; 2016 June; New Orleans, LA.
32. Jones JR, Kim J, Stull K, Modzelewski R, **Mair C**, Burke JG. A Community Engaged Initiative to Address Breast Health Disparities in Allegheny County, PA. Poster presented at: Academically Based Community Engagement: An Idea Exchange; University of Pittsburgh; 2016 December; Pittsburgh, PA.
33. Dodson ZM, Yoo EE, Buchanich J, **Mair C**. Understanding the Level of Uncertainty Associated with Data Fusion for Modeling the Current Opioid/Heroin Epidemic. Presented at: American Association of Geographers Annual Meeting; 2017 April; Boston, MA.
34. Burke JG, **Mair C**. Investigating the Social Ecological Contexts of Opioid Use and Overdose in Pennsylvania. Presented at: Society for Epidemiologic Research Annual Meeting; 2017 June; Seattle, WA.
35. **Mair C**. Applying a Behavioral Risk Modeling Framework to Alcohol-Related Problems in Community Settings. Presented at: Research Society on Alcoholism Annual Meeting; 2017 June; Denver, CO.
36. Ponicki WR, Lee JP, Gruenewald PJ, **Mair C**, Pagano A, Recarte C, Moore R, Gaidus A. What is a Liquor Store? Characteristics of Off-Premise Alcohol Sales Outlets across a Large Urban Area. Poster presented at: Research Society on Alcoholism Annual Meeting; 2017 June; Denver, CO.
37. Lee JP, Pagano A, Cunradi C, Alter H, Gruenewald PJ, **Mair C**. Use of Alcohol Sales Outlets in a Socially Disadvantaged Urban Emergency Department Sample: A Qualitative Study. Poster presented at: Research Society on Alcoholism Annual Meeting; 2017 June; Denver, CO.
36. **Mair C**, Gaidus A, Gruenewald PJ, Ponicki WR, Lee JP. Multiscale Analysis of Violent Crime and Neighborhood Alcohol Environments. Poster presented at: Society for Advancement of Violence and Injury Research Meeting; 2017 September; Ann Arbor, MI.

37. Burke JG, Thompson J, Quillen D, Creasy S, **Mair C**. Social Ecological Contexts of Opioid Use and Overdose in Northern Appalachia. Poster presented at: Appalachian Translational Research Network Summit; 2017 November; Hershey, PA.
38. **Mair C**, Coulter RWS, Song M. Designing and Evaluating a Hybridized Course for Multilevel Analysis in Public Health. Poster presented at: University of Pittsburgh's Assessment and Teaching Conference; 2018 January; Pittsburgh, PA.
39. Sumetsky N, Gruenewald PJ, Ponicki WR, **Mair C**. Multiscale analyses of alcohol outlets and crime reports in Oakland, CA. Presented at: Alcohol Policy Conference 18; 2018 April; Washington, DC.
40. Orkis LT, Sumetsky N, Gruenewald PJ, Ponicki WR, **Mair C**. Associations between Off-Premise Alcohol Outlet Features, Neighborhood Conditions and Crime, Oakland, CA. Presented at: Alcohol Policy Conference 18; 2018 April; Washington, DC.
41. Alter H, Caetano R, Cunradi CB, Dellor E, **Mair C**. Ethnicity, Drinking, and Intimate Partner Violence in an Urban Emergency Department Sample. Presented at: The Society for Academic Emergency Medicine Annual Meeting; 2018 May; Indianapolis, IN.
42. Coulter RWS, Paglisotti T, Russell ST, **Mair C**, Bersamin M, Miller E. Differences in protective school assets: Effects of intersecting sexual, gender, and racial/ethnic identities. Presented at: Society for Research on Adolescence Biennial Meeting; 2018 April; Minneapolis, MN.
43. Coulter RWS, Jun H-J, Calzo JP, Truong NL, **Mair C**, Markovic N, Charlton BM, Silvestre AJ, Stall R, Corliss HL. Sexual-orientation differences in alcohol use trajectories and disorders in emerging adulthood: Longitudinal cohort study results. Poster presented at: Society for Research on Adolescence Biennial Meeting; 2018 April; Minneapolis, MN.
44. White GE, King WC, **Mair C**, Courcoulas AP, Richardson G. Should Recommended Drinking Limits For Adults Vary By Weight Status? Results from The National Epidemiological Survey On Alcohol And Related Conditions-III. Poster presented at: Research Society on Alcoholism Annual Meeting; 2018 June; San Diego, CA.
45. Cunradi CB, Dellor E, Alter HJ, Caetano R, **Mair C**. Problem drinking and marijuana use as risks for unidirectional and bidirectional partner violence among an urban emergency department sample. Poster presented at: Research Society on Alcoholism Annual Meeting; 2018 June; San Diego, CA.
46. Caetano R, Cunradi CB, Dellor E, Alter HJ, **Mair C**. Ethnicity, drinking and intimate partner violence in an urban emergency department sample. Poster presented at: Research Society on Alcoholism Annual Meeting; 2018 June; San Diego, CA.
47. **Mair C**, Coulter RWS, Sumetsky N, Watson SM, O'Malley TL, Chung T, Hipwell AE. Trajectories of neighborhood change and associations with alcohol use amongst adolescent girls. Presented at: Research Society on Alcoholism Annual Meeting; 2018 June; San Diego, CA.
48. Creasy SL, Hawk M, Friedman MR, **Mair C**, McNaboe J, Egan J. Previously Incarcerated Transgender Women: A Mixed-Methods Study on Experiences, Needs, and Resiliencies. Presented at: American Public Health Association Annual Meeting; 2018 November; San Diego, CA.
49. Stacy SL, Buchanich JM, Ma Z, **Mair C**, Robertson L, Sharma RK, Talbott EO, Yuan J. Early life risk factors and childhood cancer risk. Presented at: American Association for Cancer Research Annual Meeting; 2019 April; Atlanta, GA.
50. Gruenewald PJ, Lee JP, **Mair C**. Alcohol, cannabis, and tobacco product use across the

- social gradient: Six-city neighborhood survey. Presented at: Society for Prevention Research Annual Meeting; 2019 May; San Francisco, CA.
51. Lee JP, Ponicki WR, Ghanem L, Pagano A, **Mair C**, Gruenewald PJ. What gets on the shelf: Social ecology of off-premise alcohol sales in diverse East Bay Area neighborhoods. Presented at: Society for Prevention Research Annual Meeting; 2019 May; San Francisco, CA.
  52. Lee JP, Ghanem L, Pagano A, **Mair C**, Gruenewald PJ. Invisible Hands: Off-Sales Alcohol Retailers between Supply and Demand. Presented at: Kettil Bruun Society Annual Meeting; 2019 June; Utrecht, Netherlands.
  53. **Mair C**, Sumetsky N, Gruenewald PJ, Zheng K, Grefenstette JJ. Accelerating youth risks for alcohol problems: Ecological impacts of drinking opportunities. Presented at: Research Society on Alcoholism Annual Meeting; 2019 June; Minneapolis, MN.
  54. Cunradi CB, Ponicki WR, Alter HJ, Caetano R, **Mair C**, Lee J, Pagano A. Context-specific dose-response models of intimate partner violence among an urban Emergency Department sample. Presented at: Research Society on Alcoholism Annual Meeting; 2019 June; Minneapolis, MN.

#### 4. Media

1. Partner violence linked to specific drinking environments. Press release from Addiction. Covered by media sources including Reuters. September 2013.
2. Research looks at drinking, sexual violence links. University of Pittsburgh University Times, Volume 47 Issue 9. January 2015.
3. Places with More Marijuana Dispensaries Have More Marijuana-Related Hospitalizations. Press release from UPMC. Covered by multiple radio, print, and online sources, including WESA (NPR affiliate), Pittsburgh Business Times, Live Science, and Medical Daily.
4. The Opioid Epidemic: Pitt Public Health Tackles Knowledge Gaps. Video at <http://insideupmc.upmc.com/the-opioid-epidemic-pitt-public-health-tackles-knowledge-gaps/> April 2016.
5. Lower-class drinkers face worse heart health risks, study says. CNN, additionally top story for University of Pittsburgh PittDaily. <https://www.cnn.com/2018/01/02/health/alcohol-heart-disease-deaths-socioeconomic-study/index.html> January 2018.
6. Discussion of the opioid epidemic in Western PA. ABC News National TV coverage, Conor Lamb victory party, March 2018.
7. Alcohol's health benefits hard to prove, but harms are easy to document. July 9, 2018. The Conversation. <https://theconversation.com/alcohols-health-benefits-hard-to-prove-but-harms-are-easy-to-document-98813>. 53,730 readers, republished in >25 sources including the Chicago Tribune, Philly.com, WBUR (NPR affiliate), Salon.com, the San Francisco Chronicle, the Los Angeles Times.

8. Does America Have a Drinking Problem? Radio Interview on The Takeaway, which reaches 2.5 million listeners on nearly 300 stations nationwide. October 3, 2018. <https://www.wnycstudios.org/story/america-drinking-problem>

## 5. Other Publications

1. Bodnar LM, **Mair CF**. Re: “the vitamin D hypothesis revisited: race-based disparities in birth outcomes in the United States and ultraviolet light availability”. *American Journal of Epidemiology*. 2014; 180(3): 332-333.
2. Morrison C, Cerdá M, Gorman DM, Gruenewald PJ, **Mair CF**, Naimi TS, Scribner R, Stockwell T, Toomey TL, Wieczorek WF. Commentary on Gmel et al. (2015): Are alcohol outlet densities strongly associated with alcohol-related outcomes? A critical review of recent evidence. *Drug and Alcohol Review*. 2016; 35(1): 55-57.

## SERVICE

### 1. Service to School and University

Years	Committee	Position
2018 - 2019	Search Committee, Department of Behavioral and Community Health Sciences	Appointed Member
2018	Planning Committee, Modeling Social Dynamics and Health Behavior Conference	Co-Chair
2016 -	Faculty Diversity Committee	Appointed Member
2016 - 2018	Strategic Planning Committee	Member
2016 -	MPH Curriculum Committee	Member
2014 - 2018	BCHS Master’s Admissions Committee	Appointed Member
2014 - 2018	Dean’s Day Poster Session, University of Pittsburgh Graduate School of Public Health	Judge
2016 -	Social Dynamics Seminar Series	Organizer
2015	Plunge into Public Health, University of Pittsburgh Graduate School of Public Health	Session Chair

### 2. Service to Field of Scholarship

#### a. Editorial Boards, Editorships

<b>Date</b>	<b>Position</b>	<b>Organization</b>
2019	Co-Editor, Journal Special Issue	Health Education & Behavior

**b. Study Sections, Review Panels, and Advisory Boards**

<b>Date</b>	<b>Position</b>	<b>Organization and Nature of Activity</b>
March 25, 2015	Ad hoc member	NIH: NIAAA Epidemiology, Prevention and Behavior Research Review Subcommittee (AA-2) Study Section
October 19, 2015	Ad hoc member	NIH: NIAAA Epidemiology, Prevention and Behavior Research Review Subcommittee (AA-2) Study Section
2015	Reviewer	ASPPH/EPA Environmental Health Fellowship Program
2015, 2018	Reviewer	University of Pittsburgh Institute for Clinical Research Education (ICRE) Mock NIH Review
2014, 2016, 2018	Reviewer	Internal Grant Reviewer, BCHS Department
2016	Reviewer	University of Pittsburgh Center for Research on Health Care (CRHC) Internal Scientific Grant Review
2018	Reviewer	University of Pittsburgh CTSI's Research Initiative for Special Populations Pilot Grant Review
2018	Reviewer	University of Pittsburgh CTSI's Biomedical Modeling Pilot Grants Review