

**Meenakshi Sabina Subbaraman, PhD**  
Biostatistician  
Alcohol Research Group  
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## EDUCATION

PhD	<b>University of California, Berkeley</b> Epidemiology, 2012  <b>Dissertation:</b> <i>Semi-parametric estimation of direct and indirect effects in the COMBINE (Combining Medications and Behavioral Interventions for Alcoholism) Study*</i> Advisors: Jennifer Ahern, PhD (chair); Mark van der Laan, PhD; Lee Ann Kaskutas, DrPH; David Presti, PhD  * Winner of “Methodological Advances from the Next Generation of Epidemiologists” award from Society for Epidemiologic Research, 2012
MS	<b>Stanford University</b> Statistics, 2007 Advisor: Bradley Efron, PhD
BS; BA	<b>University of California, Santa Barbara</b> Statistics & Applied Probability (concentration in Actuarial Science, conferred with honors), 2005 Philosophy (conferred with honors), 2005 Phi Beta Kappa, 2004

## EXPERIENCE AND SKILLS

<b>Biostatistician</b>	Alcohol Research Group, Emeryville, CA, 2015-present
<b>Associate Scientist</b>	Alcohol Research Group, Emeryville, CA, 2013-2015
<b>Postdoctoral Research Fellow</b>	UC Berkeley School of Public Health/Alcohol Research Group, 2013-2014
<b>Postdoctoral Research Fellow</b>	Brown University, Center for Alcohol and Addiction Studies, 2012-2013
<b>Consultant</b>	Gobee Group, 2011-2015
<b>Research Associate</b>	Alcohol Research Group, Emeryville, CA, 2007-2013

## Graduate Student Researcher

Division of Epidemiology, UC Berkeley, 2007-2012

## Graduate Student Researcher

The Nicholas C. Petris Center on Health Care Markets and Consumer Welfare, UC Berkeley, 2008-2009

## PUBLICATIONS

### Published

#### *Peer-reviewed*

1. Greenfield TK, Williams E, Kerr WC, **Subbaraman MS**, Ye Y. Washington State spirits privatization: How satisfied were liquor purchasers before and after, and by type of retail store in 2014? *Substance Use & Misuse*. (in press)
2. **Subbaraman MS**, Kerr WC. Support for marijuana legalization in the US state of Washington has continued to increase through 2016. *Drug and Alcohol Dependence*. 2017;175:205-209.
3. **Subbaraman MS**, Metrik J, Patterson D, Swift R. Cannabis use during treatment for alcohol use disorders predicts alcohol treatment outcomes. *Addiction*. 2017;112(4):685-94.
4. **Subbaraman MS**, Kerr WC. Marijuana policy opinions in Washington state since legalization: Would voters vote the same way? *Contemporary Drug Problems*. 2016;43(4):369-380
5. **Subbaraman MS**. Complementarity and substitution of alcohol and cannabis: A review of the literature. *Substance Use & Misuse*. 2016;51(11):1399-414.
6. **Subbaraman MS**, Kerr WC. Opinions on the privatization of liquor sales in Washington State: Did voters change their minds? *Journal of Studies on Alcohol and Drugs*. 2016;77(4):568-76.
7. Polcin DR, Korcha R, Gupta S, **Subbaraman MS**, Mericle AA. Prevalence and trajectories of psychiatric symptoms among sober living house residents. *Journal of Dual Diagnosis*. 2016;12(2):175-184.
8. Roberts SCM, **Subbaraman MS**, Delucchi KL, Wilsnack SC, Foster DG. Moderators and mediators of the relationship between receiving versus being denied a pregnancy termination and subsequent binge drinking. *Drug and Alcohol Dependence*. 2016;159:117-2.
9. Merrill JE, **Subbaraman MS**, Barnett NP. Contextual- and individual-level predictors of alcohol-related consequence aversiveness ratings among college student drinkers. *Emerging Adulthood*. 2015; DOI: 10.1177/2167696815618089.

10. **Subbaraman MS**, Laudet AB, Ritter LA, Stunz A, Kaskutas LA. Multi-source recruitment strategies for advancing addiction recovery research beyond treated samples. *Journal of Community Psychology*. 2015; 43(5):560-575.
11. **Subbaraman MS**, Kerr WC. Simultaneous versus concurrent use of alcohol and cannabis in the National Alcohol Survey. *Alcoholism: Clinical and Experimental Research*. 2015; 39(5):872-879.
12. Witbrodt J, Borkman TJ, Stunz A, **Subbaraman MS**. Mixed methods study of help-seekers and self-changers responding to an online recovery survey. *Alcohol and Alcoholism*. 2015; 50(1):82-8.
13. Kaskutas LA, Borkman TJ, Laudet AB, Ritter LA, Witbrodt J, **Subbaraman MS**, Stunz A, Bond J. Elements that define addiction recovery: the experiential perspective. *Journal of Studies on Alcohol and Drugs*. 2014; 75(6):999-1010.
14. Stout RL, Braciszewski JM, **Subbaraman MS**, Kranzler HR, O'Malley SS, Falk D. What happens when people discontinue taking medications? Lessons from COMBINE. *Addiction*. 2014; 109(12):2044-2052.
15. **Subbaraman MS**, Witbrodt J. Differences between abstinent and non-abstinent recovery from alcohol use disorders. *Addictive Behaviors*. 2014; 39(12):1730-1735.
16. **Subbaraman MS**. Can cannabis be considered a substitute medication for alcohol? *Alcohol and Alcoholism*. 2014; 49(3):292-298.
17. **Subbaraman MS**, Lendle SD, van der Laan MJ, Kaskutas LA, Ahern J. Cravings as a mediator and moderator of drinking outcomes in the COMBINE study. *Addiction*. 2013; 108(10):1737-1744.
18. Lendle SD, **Subbaraman MS**, van der Laan MJ. Identification and efficient estimation of the natural direct effect among the untreated. *Biometrics*. 2013; 69(2):310-7.
19. Zemore SE, **Subbaraman MS**, Tonigan JS. Involvement in 12-step activities and treatment outcomes. *Substance Abuse*. 2013; 34(1):60-9.
20. **Subbaraman MS**, Kerr WC. State panel estimates of the effects of the minimum legal drinking age on alcohol consumption for 1950 to 2002. *Alcoholism: Clinical and Experimental Research*. 2013; 37(s1):E291-E296.
21. **Subbaraman MS**, Kaskutas LA. Social support and comfort in AA as mediators of "Making AA Easier" (MAAEZ), a 12-step facilitation intervention. *Psychology of Addictive Behaviors*. 2012; 26(4):759-65.
22. Catalano R, Margerison-Zilko C, Goldman-Mellor S, Pearl M, Anderson E, Bruckner TA, Saxton K, **Subbaraman MS**, Goodman J, Epstein M, Currier R, Kharrazi M. Natural

selection in utero induced by mass layoffs: the hCG evidence. *Evolutionary Applications*. 2012; 5:796-805.

23. Catalano R, Saxton K, Bruckner TA, Pearl M, Anderson E, Goldman-Mellor S, Margerison-Zilko C, **Subbaraman MS**, Currier R, Kharrazi M. Hormonal evidence supports the theory of selection in utero. *American Journal of Human Biology*. 2012; 24:526-532.
24. Bruckner TA, **Subbaraman MS**, Catalano RA. Transient cultural influences on infant mortality: Fire-Horse daughters in Japan. *American Journal of Human Biology*. 2011; 23:586–591.
25. Kerr WC, **Subbaraman MS**, Ye Y. Per capita alcohol consumption and suicide mortality in a panel of US states from 1950 to 2002. *Drug and Alcohol Review*. 2011; 30:473–480.
26. **Subbaraman MS**, Kaskutas LA, Zemore SE. Sponsorship and service as mediators of the effects of Making Alcoholics Anonymous Easier (MAAEZ), a 12-step facilitation intervention. *Drug and Alcohol Dependence*. 2011; 116:117-124.
27. Kerr WC, Karriker-Jaffe K, **Subbaraman M**, Ye Y. Per capita alcohol consumption and ischemic heart disease mortality in a panel of US states from 1950 to 2002. *Addiction*. 2011; 106(2):313-322.
28. Catalano R, Goldman-Mellor S, Saxton K, Margerison-Zilko, C, **Subbaraman M**, LeWinn K, Anderson E. The health effects of economic decline. *Annual Review of Public Health*. 2011; 32:431-450.
29. Kaskutas LA, **Subbaraman MS**. Integrating addiction treatment and mutual aid recovery resources. In: Kelly J, White W, eds. **Addiction Recovery Management: Theory, Science, and Practice**. 2011, New York: Springer Science.
30. **Subbaraman MS**, Goldman SJ, Anderson ES, LeWinn KZ, Saxton KB, Shumway M, Catalano R. An exploration of secondary sex ratios among women diagnosed with anxiety disorders. *Human Reproduction*. 2010; 25(8):2084-2091.
31. Bruckner TA, Snowden L, **Subbaraman M**, Brown TT. Economic antecedents of medicaid-financed mental health services among youths in California. *International Journal of Mental Health*. 2010; 39(2):74-90.
32. Kaskutas LA, **Subbaraman MS**, Witbrodt J, Zemore S. Effectiveness of Making Alcoholics Anonymous Easier (MAAEZ), a group format 12-step facilitation approach. *Journal of Substance Abuse Treatment*. 2009; 37(3):228-239.

***Invited/Not peer-reviewed***

1. A need for stronger fraud control: how information systems can complement existing measures. *rhvouchers.org*. Oct 2012.

2. What is recovery from drug and alcohol addiction? *alcohol.addictionblog.org*. Sept 2012.
3. What is “Recovery”? *Recovery Today*. 2012;17(9):9.
4. Vouchers for new users: stimulating demand among first-time users of reproductive health services. *rhvouchers.org*. July 2012.
5. The Cambodia voucher program: Cambodian women’s perspectives. *rhvouchers.org*. June 2012.
6. The effectiveness of vouchers: where we need more evidence. *rhvouchers.org*. March 2012.
7. Filling the health equity gap: how vouchers deliver where social health insurance schemes may not. *rhvouchers.org*. Dec 2011.
8. Memory and the alcoholic brain. *Stanford Scientific Magazine*. 2007;6(1):23.
9. The Mommy Van. *Stanford Scientific Magazine*. 2007;5(2):6.

#### **Papers in progress**

1. Kerr WC, Ye Y, **Subbaraman MS**, Williams E, Greenfield TK. Changes in marijuana use across the 2012 Washington recreational legalization: Is a retrospective assessment of use before legalization more accurate? (under review)
2. Karriker-Jaffe KJ, Witbrodt J, **Subbaraman MS**, Kaskutas LA. What Happens after Treatment? Long-Term Effects of Continued Substance Use and Help-Seeking on Social Status. (under review)
3. Kerr WC, Ye Y, Williams E, **Subbaraman MS**, Greenfield TK. Survey estimates of changes in alcohol use patterns following the 2012 privatization of the Washington liquor monopoly. (under review)
4. **Subbaraman MS**, Patterson D, Metrik J, Stout R. Cannabis use predicts alcohol-related problems among individuals in treatment for alcohol use disorders. (under review)
5. Roberts SCM, Mericle A, **Subbaraman MS**, Thomas S, Treffers R, Delucchi K, Kerr WC. State policies targeting alcohol use during pregnancy and alcohol use among pregnant women. (under review)
6. **Subbaraman MS**, Kerr WC. Differences in alcohol-related harms associated with simultaneous vs. concurrent use of alcohol and cannabis. (in preparation)
7. **Subbaraman MS**, Thomas S, Treffers R, Delucchi K, Kerr WC, Martinez P, Roberts SCM. State-level policies regarding alcohol use among pregnant women are associated with worse birth outcomes: Results from 1972-2013 Vital Statistics. (in preparation)

## PRESENTATIONS & POSTERS

1. Roberts SCM, Mericle A, Subbaraman MS, Thomas S, Treffers R, Delucchi K, Kerr W. State policies targeting alcohol use during pregnancy and alcohol use among pregnant women. *40th Annual Research Society on Alcoholism Scientific Meeting*. June 24–28, 2017. Denver, CO.
2. Mulia N, Lui C, Ye Y, Subbaraman M, (2017a). State parity laws and trends in the U.S. alcohol treatment rates from 1999 - 2013 in racial/ethnic groups. *40th Annual Research Society on Alcoholism Scientific Meeting*. June 24–28, 2017. Denver, CO.
3. Mulia N, Lui C, Ye Y, Subbaraman M, (2017b). Trends in alcohol treatment: do parity laws have differential effects across racial/ethnic groups? *25th Annual Meeting of the Society for Prevention Research*. May 30–June 2, 2017. Washington, DC.
4. Subbaraman MS, Kerr WC. Elevated risk of alcohol-related problems among individuals who combine cannabis and alcohol. *American Public Health Association Annual Meeting*. October 29–November 2, 2016. Denver, CO.
5. Subbaraman MS, Kerr WC. Washington state spirits privatization: Would voters vote the same way? *National Alcohol Beverage Control Association Annual Administrators' Meeting*. October 16–19, 2016. Burlington, VT.
6. Subbaraman MS, Metrik J, Patterson D. Cannabis use during treatment for alcohol use disorders is associated with more frequent alcohol use. *39th Annual Research Society on Alcoholism Scientific Meeting*. June 25–29, 2016. New Orleans, LA.
7. Subbaraman MS, Kerr WC. Opinions on the privatization of liquor sales in Washington State: Did voters change their minds? *Alcohol Policy 17 Conference*. April 6–8, 2016, Washington, DC.
8. Subbaraman MS, Metrik J, Patterson D. Cannabis use during treatment for alcohol use disorders is associated with more frequent alcohol use. *Collaborative Perspectives on Addiction Conference*. March 18–19, 2016. San Diego, CA.
9. Karriker-Jaffe KJ, Witbrodt J, Subbaraman MS, Kaskutas LA. Racial/ethnic differences in long-term effects of substance use and help-seeking on social migration and social status. *Addiction Health Services Research (AHSR) Conference*. October 14–16, 2015. Marina del Rey, CA.
10. Karriker-Jaffe KJ, Witbrodt J, Subbaraman MS, Kaskutas LA. Long-term effects of AA availability in the community on abstinence after treatment. *Addiction Health Services Research (AHSR) Conference*. October 14–16, 2015. Marina del Rey, CA.
11. Karriker-Jaffe KJ, Witbrodt J, Subbaraman MS, Kaskutas LA. Long-term effects of substance use and help-seeking on social migration and social status in an alcohol-

dependent sample. *38th Annual Research Society on Alcoholism Scientific Meeting*. June 20-24, 2015. San Antonio, TX.

12. Subbaraman MS, Kerr WC. Privatization of liquor sales in Washington state. *National Alcoholic Beverage Control Association Annual Administrators' Meeting*. October 20-22, 2014. Boise, ID.
13. Subbaraman MS, Witbrodt J. Differences between abstinent and non-abstinent recovery from alcohol use disorders. *Addiction Health Services Research Conference*. October 15-17, 2014. Boston, MA.
14. Subbaraman MS, Witbrodt J. Differences between abstinent and non-abstinent recovery from alcohol use disorders. *Annual Cape Cod Symposium on Addictive Disorders*. September 11-14, 2014. Hyannis, MA.
15. Subbaraman MS, Witbrodt J. Differences between abstinent and non-abstinent recovery from alcohol use disorders. *Research Society on Alcoholism Scientific Meeting*. June 22-25, 2014. Seattle, WA.
16. **Invited oral presentation:** Subbaraman MS. LifeRing Attendees in the What is Recovery? Study. *LifeRing 2014 Meeting*. May 31, 2014. Santa Rosa, CA.
17. Subbaraman MS. Cannabis use among individuals in remission from alcohol use disorders. *Behavior, Biology, and Chemistry: Translational Research in Addiction 2014 Meeting*. (Oral presentation). March 14-15, 2014. San Antonio, TX.
18. Subbaraman MS, Laudet AB, Ritter LA, Stunz A, Kaskutas LA. Multi-source recruiting strategies for advancing recovery research beyond treated individuals. *Addiction Health Services Research Conference*. (Oral presentation). October 23-25, 2013. Portland, OR.
19. Subbaraman MS, Kaskutas LA. Demographic comparisons across recovery samples. Poster # 778. *35th Annual Research Society on Alcoholism Scientific Meeting*. June 22-26, 2013. Orlando, FL.
20. Stout RL, Subbaraman MS. The role of covariates in a nonlinear process model for medication effects. Poster #390. *35th Annual Research Society on Alcoholism Scientific Meeting*. June 22-26, 2013. Orlando, FL.
21. Stout RL, Subbaraman MS. Using alcohol consequences to assess the effects of treatment. (Oral presentation). *Institute for Behavioral Health, Brandeis University*. April 3, 2013, Waltham, MA.
22. Stout RL, Subbaraman MS. Missing data in treatment trials: Is there a better way? (Oral presentation). *NIAAA ACTIVE Group meeting*. March 20, 2013, Bethesda, MD.

23. Stout RL, Subbaraman MS. Drinking consequences: An event-based modeling approach (Oral presentation). *Decision Sciences Institute, Pacific Institute for Research and Evaluation*. February 13, 2013, Pawtucket, RI.
24. **Invited oral presentation:** Subbaraman MS. Causal inference methods for mediation analyses. *Center for Statistical Sciences, Brown University*. November 11, 2012, Providence, RI.
25. Subbaraman MS. Semi-parametric estimation of direct and indirect effects in the COMBINE Study. (Oral presentation). *Society for Epidemiologic Research 2012 Meeting*. June 29, 2012, Minneapolis, MN.
26. **Invited guest lecture:** Subbaraman MS. A Gentle Intro to Causal Inference + My History as a Pre-Doc. April 2, 2012, *Epidemiology Doctoral Seminar*, UC Berkeley School of Public Health.
27. **Invited guest lecture:** Subbaraman MS. Mediation and moderation in the COMBINE Study: A Gentle Intro to Causal Inference. March 22, 2012, *Methods in Social Epidemiology*, UC Berkeley School of Public Health.
28. Subbaraman MS. Moderation and mediation in the COMBINE Study. *Behavior, Biology, and Chemistry: Translational Research in Addiction 2012 Meeting*. (Oral presentation). March 3, 2012, San Antonio, TX.
29. Subbaraman MS. Semi-parametric estimation of direct and indirect effects in the COMBINE Study. (Oral presentation). *1<sup>st</sup> Annual Web Meeting of Epidemiologic Methodology Applications Conference, Society for Epidemiologic Research*. November 5, 2011. Online.
30. **Invited oral presentation:** Subbaraman MS. Moderation and mediation in the COMBINE Study. *34<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting*. June 25-29, 2011. Atlanta, GA.
31. Subbaraman MS, Lendle, SD, van der Laan M. Moderation and mediation in the COMBINE Study. Poster # 51. *34<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting*. June 25-29, 2011. Atlanta, GA.
32. Subbaraman MS, Lendle, SD, van der Laan M. Moderation and mediation in the COMBINE Study. Poster # 1197-S. *44<sup>th</sup> Annual Meeting of the Society for Epidemiologic Research*. June 22-26, 2011. Montreal, Canada.
33. Subbaraman MS. Moderation and mediation in the COMBINE Study. Poster #10. *11<sup>th</sup> Annual Samuel B. Guze Symposium on Alcoholism*. February 17, 2011. St. Louis, MO.
34. Subbaraman MS, Kaskutas LA. Why Making Alcoholics Anonymous Easier (MAAEZ) works. *California Alcohol and Drug Programs 4<sup>th</sup> Annual Training Conference*. (Oral presentation). October 13, 2010. Sacramento, CA.



35. Kerr, W.C., Karriker-Jaffe, K.J., Subbaraman, M.S., Ye, Y. Per capita alcohol consumption and IHD mortality in a panel of US states from 1950 to 2002. *36<sup>th</sup> Annual Alcohol Epidemiology Symposium of the Kettil Bruun Society*. May 31-June 4, 2010. Lausanne, Switzerland.
36. Subbaraman MS, Kaskutas LA, Zemore SE. Do particular AA activities explain the effect of a 12-step facilitation program (MAAEZ) on alcohol and drug abstinence? Poster #6. *10<sup>th</sup> Annual Samuel B. Guze Symposium on Alcoholism*. February 18, 2010. St. Louis, MO.
37. Subbaraman MS, Kaskutas LA, Zemore SE. Do particular AA activities explain the effect of a 12-step facilitation program (MAAEZ) on alcohol and drug abstinence? Poster # 3073.1. *137<sup>th</sup> American Public Health Association Annual Meeting*. November 7-11, 2009. Philadelphia, PA.
38. **Invited oral presentation:** Kaskutas LA, Subbaraman MS. Research update in enhancing 12-step participation. *American Society of Addiction Medicine: State of the Art 2009 California Society of Addiction Medicine Conference on Pathways to Addiction and Recovery*. October 8, 2009. San Francisco, CA.
39. Subbaraman MS. Mediation, moderation, and combinations of the two: A review of methodological concepts in establishing mechanisms of action in alcohol research. Poster # 102-S. *42<sup>nd</sup> Annual Meeting of the Society for Epidemiologic Research*. June 26-29, 2009. Anaheim, CA.
40. Subbaraman MS, Kaskutas LA, Zemore SE. Do particular AA activities explain the effect of a 12-step facilitation program (MAAEZ) on alcohol and drug abstinence? Poster # 177. *32<sup>nd</sup> Annual Research Society on Alcoholism Scientific Meeting*. June 23-26, 2009. San Diego, CA.
41. Subbaraman MS. Mediators, moderators, and combinations of the two: A methodological review. *Alcohol Research Group*. November 12, 2008. Emeryville, CA.
42. Kaskutas LA, Subbaraman MS. The effectiveness of MAAEZ (Making Alcoholics Anonymous Easier): A twelve-step facilitation program. (Oral presentation). *136<sup>th</sup> American Public Health Association Annual Meeting*. October 26-30, 2008. San Diego.
43. Kaskutas LA, Subbaraman MS. The effectiveness of MAAEZ (Making Alcoholics Anonymous Easier): A twelve-step facilitation program. (Oral presentation). *California Alcohol and Drug Programs Annual Meeting*. June 18, 2008. Burlingame, CA.
44. Subbaraman MS, Joseph SS. Substance abuse and HIV in rural Ugenya, Kenya. (Oral presentation). *SOTENI International*. June 21, 2006. Cincinnati, OH.

## AD HOC MANUSCRIPT REVIEWS

### *Addiction*

*Addiction Research & Theory*  
*Addictive Behaviors*  
*Alcohol & Alcoholism*  
*Alcoholism: Clinical and Experimental Research*  
*American Journal of Drug and Alcohol Abuse*  
*BMJ Open*  
*Drug and Alcohol Dependence*  
*Empirical Economics*  
*Health Affairs*  
*Journal of Psychoactive Drugs*  
*Journal of Studies on Alcohol and Drugs*  
*Journal of Substance Abuse Treatment*  
*Psychology of Addictive Behaviors*

## TEACHING AND OTHER PROFESSIONAL EXPERIENCE

**Graduate Student Instructor** *Epidemiologic Methods*, UC Berkeley, 2009-2011

**Assistant Epidemiologist** SOTENI International, Nairobi, Kenya, 2006-2007

**Instructor** *Introduction to Business Statistics*, Campus Learning Assistance Services, UC Santa Barbara, 2004-2005

## AWARDS & RECOGNITIONS

- Research Society on Alcoholism Junior Investigator Award, 2016 (New Orleans, LA)
- Travel Awardee for Addiction Health Services & Research 2014 meeting (Boston, MA)
- Cape Cod Symposium on Addictive Disorders Graduate Student & Early Career Poster Competition Honorable Mention, 2014 (Hyannis, MA)
- Research Society on Alcoholism Junior Investigator Award, 2014 (Seattle, WA)
- Travel Awardee for Behavior, Biology, and Chemistry: Translational Research in Addiction 2014 meeting (San Antonio, TX)
- Travel Awardee for Addiction Health Services & Research 2013 meeting (Portland, OR)
- Research Society on Alcoholism Junior Investigator Award, 2013 (Orlando, FL)
- Travel Awardee for 2012 meeting and winner of “Methodological Advances from the Next Generation of Epidemiologists award” from Society for Epidemiologic Research (Minneapolis, MN)
- Travel Awardee for Behavior, Biology, and Chemistry: Translational Research in Addiction 2012 meeting (San Antonio, TX)
- Samuel B. Guze Symposium on Alcoholism Student Poster Award, 2010, 2011 (Washington University in St. Louis, St. Louis, MO)
- UC Berkeley Public Health Alumni Association Scholarship, 2009, 2011

**References available upon request.**