

CURRICULUM VITAE

Richard F MacLehose, PhD

**Division of Epidemiology & Community Health
University of Minnesota, School of Public Health
1300 South 2nd Street, WBOB Suite 300, Minneapolis, MN 55454-1015
Telephone: (612) 624-1932
Fax (612) 624-0315
E-mail: mac10029@umn.edu**

Academic Rank:

Associate Professor, Division of Epidemiology and Community Health

Degrees Awarded

Degree	Institution	Date Degree Granted
B.S.	Miami University Microbiology	1995
M.S.	University of Washington Epidemiology	1998
Ph.D.	University of North Carolina Epidemiology	2005

Employment

University of Minnesota, Twin Cities School of Public Health Assistant Professor	2008 - present
National Institutes of Environmental Health Sciences Biostatistics Branch Postdoctoral Fellow	2006 - 2008
National Institutes of Environmental Health Sciences Biostatistics Branch Guest Researcher	2005 - 2006

Current Membership in Professional Organizations

Society for Epidemiologic Research, Society for Pediatric and Perinatal Epidemiologic Research,
International Society for Bayesian Analysis, American Statistical Association

RESEARCH AND SCHOLARSHIP

Honors and Awards:

Delta Omega Public Health Honorary Society, Theta Chapter, 2006. Nominated for membership in recognition of academic achievements and work in Epidemiology.

Editorships

Epidemiology, Editorial Board. 2010-present

BMC Medical Research Methodology, Associate Editor 2011-2013

Epidemiologic Perspectives and Innovations, Associate Editor 2007-2012

Journal Reviewer Experience (year of first review indicated)

2008	American Journal of Epidemiology
2009	Annals of Epidemiology
2001	Archives of Physical Medicine and Rehabilitation
2008	Bayesian Analysis
2012	BMC Bioinformatics
2006	BMC Medical Research Methodology
2007	Biometrics
2007	Biostatistics
2009	Environmental Health Perspectives
2004	Epidemiologic Perspectives and Innovations
2004	Epidemiology
2011	Epidemiology Methods
2007	Human Reproduction
2011	Injury Prevention
2011	Journal of Causal Inference
2009	Pediatric and Perinatal Epidemiology
2010	Political Analysis
2007	Statistics in Medicine

Research and Training Grants

External Sources

Received at the University of Minnesota:

Current

1. Title: Evaluating Impacts of School Programs
Funding: NIH 5R01-DK067362 PI: Nanney
Purpose: Observational study examining the impact of school policy changes on student health and behavior
Period: 4/1/11-present
Direct cost: \$356,413
Role: Co-investigator (methodologist/statistician)
2. Title: Occupational Epidemiology Training Grant
Funding: PI Gerberich
Purpose: Training grant for students in environmental health and epidemiology
Period: 4/1/11-present
Direct cost: \$1,733,450
Role: Co-director
3. Title: ARIC

Funding: NIH (R01) PI: Folsom

Purpose: This study provides novel information on risk factors heart disease

Period: 9/1/13-present

Direct cost:\$4,765,502.86

Role: co-investigator (methodologist/statistician)

5. Title: Project EAT IV

Funding: NIH (R01-HL084064) PI: Neumark-Sztainer

Purpose: This prospective cohort study was designed to investigate factors influencing eating habits among adolescents

Period: 6/1/09-present

Direct cost:\$2,331,461

Role: Statistician (methodologist/statistician)

7. Title: Minnesota Taconite Workers Health Study

Funding: State of Minnesota

Purpose: This project consists of a cohort mortality study of taconite workers, a cancer incidence study of these workers and a respiratory health screening study of current and former taconite workers and spouses.

Period: 07/01/2008 – 12/31/2013

Direct Cost: \$2,179,132

Role: co-investigator (methodologist/statistician)

8. Title: Risk and protective factors for childhood obesity in the home food environment.

Funding: NIDDK (1 R21 DK091619)

Purpose: This study uses in-home observations (video-recorded family meals, home food inventory, interviews) of the home food environment to obtain a more comprehensive understanding of the risk and protective factors for childhood obesity in the home environment.

Period: 04/05/2012- 3/31/2014

Direct Cost: \$267,243

Role: co-investigator (methodologist/statistician)

9. Title: All in the family

Funding: NIDDK (R03)

Purpose: This study examines the relationship between family members and the impact of those relationships on nutrition and weight status.

Period: 04/05/2012- 3/31/2014

Direct Cost: \$33,796

Role: co-PI

Completed

1. Title: Depression, Adipocytokines and Metabolic Dysregulation in Black and White Women

Funding: NHLBI (R21 HL091290-02) PI: Everson-Rose

Purpose: The study is a longitudinal observational study examining the relationship between depression, adipocytokines and metabolic dysregulation

Period: 04/01/09-03/31/11

Direct cost:\$302,852

Role: co-investigator (methodologist/statistician)

2. Title: Immunological Factors and Risk of Vulvodynia

Funding: NIH (R01-HD058608) PI: Harlow

Purpose: This prospective cohort study investigates the association between altered Immune-inflammatory response mechanisms in women and vulvodynia

Period: 9/1/09-8/31/13
Direct cost:\$2,163,427
Role: co-investigator (methodologist/statistician)

3. Title: Project F-EAT
Funding: NIH (R01-HL093247) PI: Neumark-Sztainer
Purpose: This cross section study was designed to investigate factors influencing eating habits and physical activity among the friends and family of adolescents eating habits among adolescents
Direct cost:\$998,172
Period: 6/1/09-7/1/12
Role: co-investigator (methodologist/statistician)
4. Title: Environmental intervention for weight gain prevention (Healthworks)
Funding: NIH (R01-DK067362) PI: Jefferey
Purpose: This group randomized trial was designed to determine whether changes in workplace environment impact individual overweight as well as individual behavior.
Period: 2/1/11-6/1/11
Direct costs:\$2,033,367
Role: co-investigator (methodologist/statistician)
5. Title: Multilevel latent class and social network models for observational and adolescent obesity data
Funding: NIH (U01-HD061940) PI: Wall
Purpose: This proposal will develop and examine new statistical models and methods incorporating *latent variables*, *social networks* and *propensity scores* that simultaneously incorporate multiple variables from multilevels of influence on adolescent obesity in order to inform a richer understanding of the phenomena.
Period: 8/10/09-6/1/2013
Direct cost:\$157,022
Role: PI of sub-contract
6. Title: Coronary artery risk development in young adults (CARDIA) study
Funding: NHLBI (N01 HC048048) PI: Schreiner
Purpose: The study is a long term observational longitudinal study examining risk factors for development of coronary artery disease
Period: 01/01/09-6/1/2013
Direct cost:\$3,970,941
Role: co-investigator (methodologist/statistician)
7. Title: Epidemiologic study of risk factors and biomarkers of atrial fibrillation.
Funding: NIH (R01-HD058608) PI: Alonso
Purpose: This study provides novel information on risk factors for atrial fibrillation, particularly among African-Americans and contributes to our understanding of the pathogenic process underlying atrial fibrillation..
Period: 9/1/10-6/1/2013
Direct cost:\$661,489
Role: co-investigator (methodologist/statistician)

Publications

*Articles in refereed journals (+ indicates student advisee as first author, * co first-author)*

1. Loth KL, **MacLehose RF**, Bucchianeri M, Crow S, Neumark-Sztainer D. Predictors of dieting and disordered eating behaviors from adolescence to young adulthood. Accepted, *Journal of Adolescent Health*.
2. Allen EM, Alexander BH, **MacLehose RF**, Ramachandran G, Mandel JH. Mortality experience among Minnesota taconite mining industry workers. Accepted, *Occupational and Environmental Medicine*.
3. Naimi A, **MacLehose RF**, Kaufman JS. Mediation misgivings: ambiguous clinical and public health interpretations of natural direct and indirect effects. Accepted, *International Journal of Epidemiology*
4. Nanney MS, **MacLehose RF**, Kubik MY, Davey CS, Coombes B, Nelson TR. Recommended school policies are associated with student sugary drink and fruit and vegetable intake. Accepted, *Preventive Medicine*.
5. +Muller C, **MacLehose RF**. Estimating predicted probabilities from logistic regression: default methods may not be appropriate for the intended population of inference. Accepted, *International Journal of Epidemiology*
6. Lampard AM, **MacLehose RF**, Eisenberg ME, Neumark-Sztainer D, Davison KK. Weight related teasing in the school environment: associations with psychosocial health and weight control practices among adolescent boys and girls. Accepted, *Journal of Youth and Adolescence*.
7. +Bruening M, **MacLehose RF**, Eisenberg ME, Nanney MS, Story M, Neumark-Sztainer D. Are sugar-sweetened beverage consumption and eating at fast food restaurants related among adolescents and their friends. accepted to *Journal of Nutrition Education and Behavior*.
8. +Hamra G, **MacLehose RF**, Richardson DB, Bertke S, Daniels RD. Modeling complex mixtures in epidemiologic analysis: additive versus relative measures for differential effectiveness. *Occupational and Environmental Medicine*. 71(2): 141-6. 2014
9. Harlow BL, Nguyen RHN, Kunitz K, Rydell S, **MacLehose RF**. Prevalence of Symptoms Consistent with a Diagnosis of Vulvodynia: Population-based estimates from two geographical regions. *American Journal of Obstetrics and Gynecology*, 2014.
10. Kaufman JS, **MacLehose RF**. Which of these things is not like the other. *Cancer*. 119(24): 4216-4222. 2013
11. Berge JM, Bauer KW, **MacLehose RF**, Eisenberg ME, Neumark-Sztainer D. Association between relationship status and day-to-day health behaviors and weight among diverse young adults. Accepted, *Family Systems and Health*.
12. Loth K, **MacLehose RF**, Fulkerson J, Crow S, Neumark-Sztainer D. Are food restriction and pressure-to-eat parenting practices associated with adolescent disordered eating behaviors? *International Journal of Eating Disorder*. 47(3) 310-4. 2013
13. Larson N, MacLehose R, Fulkerson JA, Berge JM, Story M, Neumark-Sztainer D. Eating breakfast and dinner together as a family: Associations with sociodemographic characteristics and implications for diet quality and weight status. *J Acad Nutr Diet*. 113(12): 1601-1609. 2013.
14. Nguyen RHN, Turner RM, Rydell SA, **MacLehose RF**, Harlow BL. Perceived stereotyping and seeking care for chronic vulvar pain. *Pain Medicine*. 14(10):1461-7. 2013.
15. +Whitham H, **MacLehose RF**, Harlow B, Wellons M, Schreiner P. Assessing the Utility of Methods for Menopausal Transition Classification in a Population-Based Cohort: The CARDIA Study. *Maturitas*. 75(3): 289-93. 2013.

16. +Hamra G, **MacLehose RF**, Richardson DB. A gentle introduction to Markov chain Monte Carlo. *International Journal of Epidemiology*. 42(2): 627-634. 2013.
17. Shimotsu ST, Jones-Webb R, **MacLehose RF**, Nelson TF, Forster JL, Lytle LA, Neighborhood Socioeconomic Characteristics, the Retail Environment, and Alcohol Consumption: A Multilevel Analysis. *Drug and Alcohol Dependence*. 132(3) 449-456. 2013.
18. Soliman A, Carlson A, **MacLehose RF**, Schommer JC, Brummel A. Patient characteristics predicting the frequency of medication therapy management visits for diabetes patients. *Clinical Therapeutics*. 35(4): 534-540. 2013.
19. Kubik MY, Davey C, Nannery MS, **MacLehose RF**, Nelson TF, Coombes B. Gaines, stalls and reversals: availability of low-nutrient, energy-dense food and beverages in vending machines and school stores in Minnesota secondary schools, 2002-2010. *American Journal of Preventive Medicine*. 44(6): 583-588. 2013.
20. Huxley R, Lopez F, **MacLehose RF**, Chen LY, Agarwal S, Soliman E, Alonso A. Novel Association between Matrix Metalloproteinase-9 and risk of Incident Atrial Fibrillation: the Atherosclerosis Risk in Communities Study (ARIC). *PLOS ONE*. 8(3), e59052. 2013.
21. Loth K, **MacLehose RF**, Fulkerson J, Crow S, Neumark-Sztainer D. Food related parenting practices and adolescent weight status: a population based study. *Pediatrics*. 131(5): 1443-1450. 2013
22. *Harlow B, **MacLehose RF** (co first author), Smolenski DJ, Soares CN, Otto MW, Joffe H, Cohen LS. Depression onset during the menopausal transition: can we trust our data? *American Journal of Epidemiology*. 177(10):1148-56. 2013.
23. Berge JM, **MacLehose RF**, Loth KA, Eisenberg M, Bucchianeri MM, Neumark-Sztainer D. Parent conversations about healthful eating and weight: associations with adolescent disordered eating behavior. *JAMA Pediatrics*. 167(8). 746-753. 2013.
24. Quick V, Loth K, **MacLehose RF**, Linde JA, Neumark-Sztainer D. Prevalence of adolescents' self-weighting behaviors and associations with weight-related behaviors and psychological well-being. *Journal of Adolescent Health*. 52(6): 738-744. 2013.
25. Hamra G, Richardson DB, **MacLehose RF**, Wing S. Integrating informative priors from experimental research: an example from radiation epidemiology. *Epidemiology*, 24(1): 90-5. 2013.
26. Loth KA, **MacLehose RF**, Fulkerson J, Crow S, Neumark-Sztainer D. Eat this, not that: demographic correlates of food-related parenting practices. *Appetite*. 60(1): 140-7. 2013
27. +Hamra G, **MacLehose RF**, Cole S. Using weakly informative Bayesian priors to conduct sensitivity analyses for sparse data problems. *Epidemiology*. 24(2): 233-9. 2013
28. Bruening M, Eisenberg M, **MacLehose RF**, Nannery MS, Story M, Neumark-Sztainer D. Relationship between adolescents' and their friends eating behaviors: breakfast, fruit, vegetable, whole-grain and dairy intake. *Journal of the Academy of Nutrition and Dietetics*. 112(10): 1608-13. 2012.
29. Shimotsu ST, Jones-Webb R, Nelson TF, **MacLehose RF**, Lytle LA, Forster JL, Van Riper DC, Food and Alcohol Access in Neighborhoods of Varying Socioeconomic Status, *Journal of Alcohol and Drug Education*, 2012; 56(3): 77-92, December 2012.
30. Neumark-Sztainer D, **MacLehose RF**, Loth KA, Fulkerson JA, Eisenberg ME. What's for dinner? Foods served at family meals in the homes of adolescents and associations with parent characteristics. *Public Health Nutrition*, 19:1-11. 2012.

31. +Johnson G, **MacLehose RF**, Baird DD, Laughlin SK, Hartmann KE. Uterine Leiomyomata and time to conception. *Human Reproduction*. 27(10): 2991-7. 2012
32. Shimotsu S, Jones Webb RJ, Lytle LA, **MacLehose RF**, Nelson TF, Forster JL. The Relationships between Fruit and Vegetable Intake, Alcohol Consumption, and Socioeconomic Status. *American Journal of Health Promotion*. 27(1): 21-8. 2012
33. Nguyen Rh, Ecklund A, **MacLehose RF**, Veasley, C, Harlow B. Co-morbid pain conditions and feelings of invalidation and isolation among women with vulvodynia. *Psychology, Health and Medicine*. 17(5): 589-98. 2012.
34. +Bruening M, **MacLehose RF**, Loth K, Story M, Neumark-Sztainer D. Feeding a family in a recession: Food insecurity among Minnesota parents. *American Journal of Public Health*. 102(3): 520-6. 2012.
35. Nguyen R, **MacLehose RF**, Veasley C, Turner RM, Harlow BL, Horvath KJ. Comfort in discussing vulvar pain in social relationships among women with vulvodynia. *Reproductive Medicine*. 57(3-4):109-14. 2012
36. **MacLehose RF**, Gustafson P. Is probabilistic bias analysis approximately Bayesian? *Epidemiology*. 23(1):151-8. 2012
37. **MacLehose RF**, Kaufman JS. Commentary: the wizard of odds (with discussion). *Epidemiology*. 23(1):10-2. 2012.
38. Motsinger S, Lazovich D, **MacLehose RF**, Torkelson C, Robein K. Vitamin D intake and mental health related quality of life in older women: the Iowa women's health study. *Maturitas*. 71(3):267-73. 2012
39. Lopez FL, Agarwal SK, **MacLehose RF**, Soliman EZ, Sharrett AR, Huxley RR, Konety S, Ballantyne CM, Alonso A. Blood lipid levels, lipid lowering medications, and the incidence of atrial fibrillation: the Atherosclerosis Risk in Communities (ARIC) study. *Circ Arrhythm Electrophysiol*. 5(1): 155-62. 2012.
40. Linde J, Nygaard KE, **MacLehose RF**, Mitchell NR, Harnack LJ, Cousins JM, Graham DJ, Jeffrey RW. Results of a multi-component group randomized worksite environmental intervention trial for weight gain prevention. *International Journal of Behavioral Nutrition and Physical Activity*. 9(14):1-14. 2012
41. Berge JM, **MacLehose RF**, Loth KA, Eisenberg ME, Fulkerson JA, Neumark-Sztainer D. Family Meals: Associations with Weight and Eating Behaviors Among Mothers and Fathers. *Appetite*. 58(3): 1128-1135. 2012.
42. Berge JM, **MacLehose RF**, Eisenberg M, Laska M, Neumark-Sztainer D. How Significant is the 'Significant Other': Associations between Significant Others' Health Behaviors and Young Adults' Health Outcomes. *International Journal of Behavioral Nutrition and Physical Activity*. 2;9:35. 2012.
43. Khandker M, Brady SS, Vitonis AF, **MacLehose RF**, Stewart EG, Harlow BL. The influence of depression and anxiety on risk of adult onset vulvodynia. *Journal of Women's Health*, 2011
44. Kaufman JS, **MacLehose RF**, Torrone E, Savitz DA. A flexible Bayesian hierarchical model of preterm birth risk among US Hispanic Subgroups in Relation to maternal nativity and education. *BMC Med Res Meth*. 19(11):51. 2011
45. Huxley RR, Lopez FL, Folsom AR, Agarwal SK, Loehr LR, Soliman EZ, **MacLehose RF**, Kunety S, Alonso A. Absolute and attributable risks of atrial fibrillation in relation to optimal and borderline risk factors: the Atherosclerosis Risk in Communities (ARIC) Study. *Circulation*. 123(14):1501-8. 2011
46. **MacLehose RF**, Oakes JM, Carlin B. Turning the Bayesian crank. *Epidemiology*. 22(3):365-7. 2011

47. Magnani J, Lopez F, Soliman EZ, **MacLehose RF**, Crow RS, Alonso A P Wave Indices, Obesity, and the Metabolic Syndrome: the Atherosclerosis Risk in Community Study. *Obesity*. 2011.
48. Li J, **MacLehose RF**, Smith K, Hedberg C. Development of a Salmonella screening tool for consumer complaint based foodborne illness surveillance systems. *Journal of Food Protection*. 74(1): 106-10. 2011.
49. Richardson D., **MacLehose RF**, Cole S, Langholz B. Hierarchical latency models for dose-time-response associations. *American Journal of Epidemiology*. 173(6):695-702. 2011.
50. **MacLehose RF**, Dunson DB. Bayesian semi-parametric multiple shrinkage priors. *Biometrics*. 66(2): 455-462. 2010
51. Kaufman S., Kaufman JS, **MacLehose RF**. Analytic Bounds on Causal Risk Differences in Directed Acyclic Graphs Involving Three Observed Binary Variables. *Journal of Statistical Planning and Inference*. 139(10): 3473-87. 2009
52. Harlow BL, Vazquez G, **MacLehose RF**, Erickson DJ, Oakes JM, Duval SJ. Self-reported vulvar pain characteristics and their association with clinically confirmed vestibulodynia. *Journal of Women's Health*. 18(9): 1-12. 2009
53. **MacLehose RF**, Dunson DB. Nonparametric Bayes kernel-based priors for functional data analysis. *Statistica Sinica*. 19(2): 611-630. 2009
54. **MacLehose RF**, Olshan A., Herring AH, Honein MA, Shaw GM, Romitti PA. Bayesian methods for correcting misclassification: an example from birth defects epidemiology. *Epidemiology*. 20(1): 27-35. 2009
55. **MacLehose RF**, Herring AH, Savitz DA, Hartmann KE, Singer P, Weinberg H. Tap water disinfection byproducts and time to pregnancy. *Epidemiology*. 19(3): 451-458. 2008
56. Phillips CV, **MacLehose RF**, Kaufman JS. Errors in statistical tests 3. Emerging themes in Epidemiology. 5:9. 2008.
57. Vinikoor LC, Kaufman JS, **MacLehose RF**, Laraia BA. Effects of racial density and income incongruity on pregnancy outcomes in less segregated communities. *Social Science in Medicine*. 66(2):255-9. 2007
58. **MacLehose RF**, Dunson DB, Herring AH, Hoppin JA. Bayesian methods for highly correlated data (with commentary). *Epidemiology*. 18(2): 199-207. 2007
59. Gesink Law DC, **MacLehose RF**, Longnecker MP. Obesity and time to pregnancy. *Human Reproduction*. 22(2): 414-20. 2007
60. **MacLehose RF**, Kaufman S, Kaufman JS, Poole C. Bounding causal effects under uncontrolled confounding using counterfactuals. *Epidemiology*. 16(4):548-555. 2005
61. Kaufman S, Kaufman JS, **MacLehose RF**, Greenland S, Poole C. Improved estimation of controlled direct effects in the presence of unmeasured confounding of intermediate variables. *Statistics in Medicine*. 24(11):1683-702. 2005
62. Kaufman JS, **MacLehose RF**, Kaufman S. A further critique of the analytic strategy of adjusting for covariates to identify biologic mediation. *Epidemiologic Perspectives and Innovations*. 1(1):4. 2004
63. Baldwin LM, **MacLehose RF**, Hart LG, Beaver SK, Every N, Chan L. Quality of care for acute myocardial infarction in rural and urban US hospitals. *Journal of Rural Health*. 20(2):99-108. 2004

64. Jha A, Patrick DL, **MacLehose RF**, Doctor JN, Chan L. Dissatisfaction with Medical Services Among Medicare Beneficiaries with Disabilities. *Archives of Physical Medicine and Rehabilitation*. 83(10): 1335-41. 2002
65. Chan L, Beaver SK, **MacLehose RF**, Jha A, Maciejewski M, Doctor JN. Disability and health care costs in the Medicare population. *Archives of Physical Medicine and Rehabilitation*. 83(9):1196-201. 2002
66. Doctor JN, Chan L, **MacLehose RF**, Patrick DL. Weighted health status in the Medicare population: Development of the weighted health index for the Medicare current beneficiaries survey (WHIMCBS). *Journal of Outcome Measurement*, 4(4), 721-739. 2001
67. Chan L, **MacLehose RF**, Houck PM. Impact of Physician Reminders on the Use of Inuenza Vaccinations: a Randomized Trial. *Archives of Physical Medicine and Rehabilitation*. 83(3):371-5, 2001.
68. Chan L, Doctor J, Temkin N, **MacLehose RF**, Esselman P, Bell K, Dikmen S. Insurance type and discharge disposition from acute care following traumatic brain injury. *Archives of Internal Medicine*. 82(9):1151-4. 2001.
69. Chan L, Houck PM, Prela CM, **MacLehose RF**. Using medicare databases for outcomes research in rehabilitation medicine. *American Journal of Physical Medicine and Rehabilitation*. 80(6):474-80. 2001
70. Houck PM, **MacLehose RF**, Neiderman M. Initial Empiric antibiotic therapy and mortality among elderly pneumonia inpatients. *Chest*. 119(5):1420-6. 2000
71. Gan SC, Beaver SK, Houck PM, **MacLehose RF**, Lawson HW, Chan L. Treatment of acute myocardial infarction and 30 day mortality among men and women. *New England Journal of Medicine*. 343(1): 8-15. 2000
72. Taplin S, Balow W, Ludman E, **MacLehose RF**, Meyer DM, Seger D, Herta D, Chin C, Curry S. Testing reminder and motivational telephone calls to increase screening mammography: a randomized study. *Journal of the National Cancer Institute*. 92(3):233-42. 2000
73. **MacLehose RF**, Harpster A, Lanier AP, Schiff MA, Koehler K, Murphy N, Becker TM. Risk factors for cervical dysplasia in Alaska Native women: a pilot study. *Alaska Medicine* 41(4):76-85. 1999
74. Chan L, Doctor JL, **MacLehose RF**, Lawson H, Rosenblat RA, Baldwin LM, Jha A. Do Medicare patients with disabilities receive preventive services? A population-based study. *Archives of Physical Medicine and Rehabilitation*. 80(6):642-6. 1999

Articles Submitted to Peer Review Journals (Not comprehensive)

+ Indicates a publication for which one of Dr. MacLehose's student advisees was first author.

1. Oakes JM, **MacLehose RF**, Harlow BL. Using Administrative Health Care System Records to Recruit a Community-Representative Sample. Submitted to *Epidemiology*
2. +Bruening M, **MacLehose RF**, Eisenberg ME, Kim S, Story M, Neumark-Sztainer D. Friends like me: associations in overweight status among adolescent friends by race/ethnicity, gender and friendship status. submitted to *Archives of Pediatrics*.
3. Nelson TF, Hearst MO, Davey C, **MacLehose RF**, Kubik MY, Coulter S, Coombes B, Nanney MS. Disparities in Secondary School Physical Activity Policies and Practices: Statewide Trends in Minnesota 2002-2010. submitted to *American Journal of Preventive Medicine*
4. MacLehose RF, Hamra G. Application of Bayesian methods to epidemiology. Submitted to *Epidemiologic Reports*

Non-refereed Journal Articles

1. **MacLehose RF**. A program for graphing point estimates and confidence intervals. Stata Technical Bulletin. Jul; Vol 56. 2000
2. Savitz DA, Singer PC, Hartmann KE, Herring AH, Weinberg HS, Makarushka C, Hoffman C, Chan R, **MacLehose RF**. Drinking water disinfection by-products and pregnancy outcome. AWWA Research Foundation. 2005

Invited Presentations Presented at Professional Meetings, Conferences, etc.

1. Selection bias in observational research. Division of Environmental Health. Minneapolis, MN 2013
2. Bayesian inverse probability weighted models. Society for Epidemiologic Research. Minneapolis, MN 2012
3. Direct effects, indirect effects and mediation. University of Minnesota. Minneapolis, MN 2012
4. Is probabilistic bias analysis approximately Bayesian? Causal Inference in Health Research, University of Montreal 2011
5. Bayesian methods for epidemiologic data analysis. University of North Carolina, 2010
6. Is probabilistic bias analysis approximately Bayesian? McGill University, 2010
7. Bayesian analysis in epidemiology. Epidemiologic Student Caucus Symposium at the Society for Epidemiologic Research. Anaheim, 2009
8. Bayesian hierarchical modeling of dose-response curves. Society for Epidemiologic Research. Anaheim, 2009.
9. Bayesian hierarchical estimation of dose-response curves. American Public Health Association. San Diego, 2008.
10. Kernel mixtures of Gaussian processes. Division of Biostatistics, University of Minnesota. Minneapolis, 2008.
11. Kernel mixtures of Gaussian processes. Department of Biostatistics, Emory. Atlanta, 2008.
12. Bayesian adjustments for misclassification of maternal smoking. Centers for Disease Control and Prevention. Atlanta, 2008.
13. Kernel mixtures of Gaussian processes. Department of Biostatistics, Vanderbilt. Nashville, 2008.
14. Bayesian parametric and semi-parametric hierarchical models. Vanderbilt. Nashville, 2007
15. Bayesian semi-parametric multiple shrinkage priors. Joint Statistical Meetings. Salt Lake City, 2007
16. Bayesian Methods for Highly Correlated Data. ENAR. Atlanta, 2007
17. Bayesian Methods for Highly Correlated Data. National Institute of Environmental Health Sciences. 2007
18. Disinfection By-Products and Spontaneous Abortion: A Bayesian Correction for Errors in Measurement of Time to Loss. Society for Epidemiologic Research. Toronto, 2005

TEACHING AND ADVISING

University of Minnesota

Courses taught

PubH 8342 – Advanced Epidemiologic Methods 2	(co Instructor)
Spring 2014 16 students	
PubH 8300 –Novel Theory and Methods in Epidemiology	(Co Instructor)
Spring 2013. 19 students	
PubH 8300 – Novel Theory and Methods in Epidemiology .	(Co Instructor)
Fall 2012. 16 students	
PubH 7401 - Fundamentals of Biostatistical Inference.	(Sole Instructor)
Fall 2012. 12 students	
PubH 7401 - Fundamentals of Biostatistical Inference.	(Sole Instructor)
Fall 2011. 24 students	
PubH 7401 - Fundamentals of Biostatistical Inference.	(Sole Instructor)
Fall 2010. 27 students	
PubH 8141 - Doctoral Seminar in Observational Inference.	(Co instructor)
Spring 2010 8 students	
PubH 7401 - Fundamentals of Biostatistical Inference.	(Sole Instructor)
Fall 2009. 16 students	

Masters Theses Directed

Ifrah Biyoow (MPH, Epidemiology) Misclassification in case control studies. 2013
 Diedre Kiefer (MPH, Epidemiology) A critical analysis of Minnesota's FluSafe program. 2013
 Kris Kapphahn (MS, Biostatistics) The effect of missing data in peer networks. 2012
 Meg Tabaka (MPH, Epidemiology) Impact of depression history on incident depression during the late reproductive years. 2011
 Gayle Johnson (MPH, Biostatistics) Uterine fibroids and fecundability. 2010
 Nan Zhang (MS, Biostatistics) Lifetime social support and depression in the late reproductive years. 2010

Master's Student Advisees

Jonah Popp (Biostatistics)
 Brett Peterson (Biostatistics)
 Diedre Kiefer (Epidemiology)
 Sarah Motsinger (Epidemiology)
 Allison Schlak (Epidemiology)
 Kara Marlat (Epidemiology)

Doctoral Dissertations Directed:

Clemma Muller, dissertation in progress
 Craig Meyer, dissertation in progress

Doctoral Committees Served on (current)*

*Amber Fyfe Johnson, Epidemiology
*Bozena Morawski, Epidemiology
*Erika Fuchs, Epidemiology
*Xiaoye Ma, Biostatistics
Noel Muller, Epidemiology
Katie Loth, Epidemiology
*Laura Scott, Environmental Health
Ben Al-Haddad, Epidemiology
*Elizabeth Allen, Environmental Health
Christine Lambert, Environmental Health
*Nnaemeka Odo, Environmental Health
*Angie Vasquez, Nutrition
Meg Bruening, Nutrition
Ahmed Soliman, Pharmacy
*Noelle Gronroos, Epidemiology
Katie Schonfeld, Environmental Health
*Kate Nygaard, Epidemiology
Kelsey McDonald, Epidemiology
Scott Shimotsu, Epidemiology
Brian Lee, Epidemiology
John Li, Epidemiology

University of North Carolina at Chapel Hill

Doctoral Committees Served on

Ghassan Hamra, Epidemiology

McGill University, Montreal

Doctoral Committees Served on

*Jeremy Lebreque, Epidemiology and Biostatistics

SERVICE TO THE DISCIPLINE/PROFESSION

Ad hoc grant reviewer for Psychosocial Risk and Disease Prevention Study Section, NIH. 2013

Ad hoc grant reviewer for the Medical Research Council, United Kingdom. 2012

Roundtable discussion leader, Society for Epidemiologic Research. 2012

Symposium chair, "Teaching Epidemiologic Methods." Society for Epidemiologic Research. 2012

Symposium chair, "Applied Causal Models." Society for Epidemiologic Research. 2010

Symposium chair, "Bayesian Methods in Epidemiologic Research." Society for Epidemiologic Research. 2009

March 27, 2013

Session chair, “Hierarchical modeling of large biomedical datasets.” International Biometric Society, Eastern North American Region. 2007

SERVICE TO THE UNIVERSITY/COLLEGE/DEPARTMENT

University of Minnesota

Graduate faculty in Epidemiology and Community Health: 2007-Present
Graduate faculty in Biostatistics: 2007-Present
PhD credentials committee: 2009 – Present
Part A exam committee: 2010 – present
Seminar committee chair in Biostatistics: 2010 – 2012
Ad hoc Part B exam grader: 2007 - present
Ad hoc Part A exam grader: 2007 – present
Ad hoc masters qualifying exam grader in Biostatistics: 2007-2011
Epidemiology FEC: 2012-present
School of Public Health, APT Committee: 2013-present

University of North Carolina

Visiting scholar, 2006-2008

OTHER SERVICE

Guest teacher and reader. Lake Harriet Community School, 1st grade
Minneapolis United Soccer Coach, girls 5-7 year team Madagascar (undefeated, 2011)