

Ann Von Holle
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Biostatistics and Computational Biology Branch
National Institute of Environmental Health Sciences
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Research Triangle Park, NC 27709
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<https://ann-von-holle.github.io>

CURRENT POSITION

National Institute of Environmental Health Sciences
Postdoctoral Fellow

Research Triangle Park, NC
2018-Present

EDUCATION

University of North Carolina, Chapel Hill

Ph.D., Epidemiology

Dissertation: Infant growth trajectories and lipid levels in adolescence

Chapel Hill, NC
2018

University of Pennsylvania

M.A., Demography

Philadelphia, PA
2005

University of North Carolina, Chapel Hill

M.S., Biostatistics

Chapel Hill, NC
2003

Johns Hopkins University

M.H.S., Population Dynamics

Baltimore, MD
1995

University of California, San Diego

B.A., Applied Mathematics

San Diego, CA
1993

RESEARCH EXPERIENCE

National Institute of Environmental Health Sciences

Postdoctoral Fellow; Advisor: Clarice R. Weinberg

Research Triangle Park, NC
2018-present

Research topics: Familial risk and biomarkers associated with breast cancer incidence

- Investigating the role of serum iron biomarkers in breast cancer incidence
- Applied survival analysis and data visualization to develop new method to estimate familial aggregation of breast cancer age of onset
- Developed analysis plans to synthesize *a priori* approach to projects

University of North Carolina, Chapel Hill

Graduate researcher; Advisor: Kari E. North

Chapel Hill, NC
2013-2018

Thesis: Infant anthropometric growth as 1) a factor associated with sociodemographic risk factors, 2) an exposure hypothesized to modify lipid levels in adolescence and 3) an effect modifier of the association between genetic risk variants and lipid levels.

- Estimated different patterns of infant growth and their association with lipid levels in adolescence with structural equation models, factor analysis, and non-linear random effects models.
- Documented all work with reproducible reports written in R, markdown and LaTeX; tracked script development with Git.

University of North Carolina, Center of Excellence for Eating Disorders (CEED) Chapel Hill, NC
Biostatistician 2005-2013

- Collaborated in the planning and interpretation of statistical analyses for research papers authored by faculty, post-doctoral fellows, graduate students and undergraduate students.
- Analyzed data with regression and structural equation models in SAS and R.
- Participated in manuscript writing process, which included the statistical methods sections, data visualizations and overall data integrity.

Maryland Health Care Commission Baltimore, MD
Research analyst 1999-2000

- Assisted in the planning and production of analyses regarding the status of the uninsured in Maryland with federal survey data.

Peace Corps Togo, Africa
Public health specialist 1997-1998

FELLOWSHIPS AND AWARDS

Individual Pre-Doctoral Fellowship Award (Award: 16PRE29200008) 2016-2018
American Heart Association (\$51,900)

Scholarship award Summer 2014 – Summer 2016
Summer Institute in Statistical Genetics, Seattle, WA

Ruth L. Kirschstein Pre-Doctoral Institutional National Research Service Award 2001-2005
National Institute of Child Health and Development, National Institutes of Health

PUBLICATIONS

1. **Von Holle A**, O'Brien KM, Sandler DP, Janicek R, Weinberg CR. Association Between Serum Iron Biomarkers and Breast Cancer. *Cancer Epidemiol Biomarkers Prev.* 2021;30(2):422-425. doi:10.1158/1055-9965.EPI-20-0715
2. **Von Holle A**, O'Brien KM, Sandler DP, Janicek R, Weinberg CR. Association Between Serum Iron Biomarkers and Breast Cancer. *Cancer Epidemiol Biomarkers Prev.* 2021 Feb 1;30(2):422–5.
3. **Von Holle A**, North KE, Gahagan S, et al. Sociodemographic predictors of early postnatal growth: evidence from a Chilean infancy cohort. *BMJ OPEN.* 2020;10(6). doi:10.1136/bmjopen-2019-033695
4. **Von Holle A**, O'Brien KM, Sandler DP, Weinberg CR. Evidence for familial clustering in breast cancer age of onset. *International Journal of Epidemiology.* 2020;00(00):8. doi: 10.1093/ije/dyaa201
5. **Von Holle A**, North KE., et al. The perils of standardizing infant weight to assess weight change differences across exposure groups. *Annals of Epidemiology.* 2018. Aug; 28(8):515-520.
6. Watson HJ, **Von Holle A**, Knoph C, Hamer RM, Torgersen L, Reichborn-Kjennerud T, et al. Psychosocial factors associated with bulimia nervosa during pregnancy: An internal validation study: Psychosocial Factors with BN in Pregnancy. *International Journal of Eating Disorders.* 2015 Sep;48(6):654–62.
7. Perrin EM, **Von Holle A**, Zerwas S, Skinner AC, Reba-Harrelson L, Hamer RM, et al. Weight-for-length trajectories in the first year of life in children of mothers with eating disorders in a large Norwegian cohort: Weight in Children of Mothers with Eating Disorders. *International Journal of Eating Disorders.* 2015 May;48(4):406–14.

8. Abebe DS, Von Soest T, **Von Holle A**, Zerwas SC, Torgersen L, Bulik CM. Developmental Trajectories of Postpartum Weight 3 Years After Birth: Norwegian Mother and Child Cohort Study. *Maternal and Child Health Journal*. 2015 Apr;19(4):917–25.
9. Zerwas S, **Von Holle A**, Watson H, Gottfredson N, Bulik CM. Childhood anxiety trajectories and adolescent disordered eating: Findings from the NICHD study of early child care and youth development: Childhood Anxiety Trajectories. *International Journal of Eating Disorders*. 2014 Nov;47(7):784–92.
10. Zerwas SC, **Von Holle A**, Perrin EM, Cockrell Skinner A, Reba-Harrelson L, Hamer RM, et al. Gestational and Postpartum Weight Change Patterns in Mothers with Eating Disorders: Weight Change Patterns in Mothers with Eating Disorders. *European Eating Disorders Review*. 2014 Nov;22(6):397–404.
11. Ålgars M, Huang L, **Von Holle AF**, Peat CM, Thornton LM, Lichtenstein P, et al. Binge eating and menstrual dysfunction. *Journal of Psychosomatic Research*. 2014 Jan;76(1):19–22.
12. Runfola CD, Zucker NL, **Von Holle A**, Mazzeo S, Hodges EA, Perrin EM, et al. NURTURE: Development and pilot testing of a novel parenting intervention for mothers with histories of an eating disorder: Nurture Pilot Testing. *International Journal of Eating Disorders*. 2014 Jan;47(1):1–12.
13. Peat CM, Huang L, Thornton LM, **Von Holle AF**, Trace SE, Lichtenstein P, et al. Binge eating, body mass index, and gastrointestinal symptoms. *Journal of Psychosomatic Research*. 2013 Nov;75(5):456–61.
14. Runfola CD, **Von Holle A**, Peat CM, Gagne DA, Brownley KA, Hofmeier SM, et al. Characteristics of Women with Body Size Satisfaction at Midlife: Results of the Gender and Body Image (GABI) Study. *Journal of Women & Aging*. 2013 Oct;25(4):287–304.
15. Watson HJ, **Von Holle A**, Hamer RM, Knoph Berg C, Torgersen L, Magnus P, et al. Remission, continuation and incidence of eating disorders during early pregnancy: a validation study in a population-based birth cohort. *Psychol Med*. 2012 Nov 20;1–12.
16. Brownley KA, **Von Holle A**, Hamer RM, La Via M, Bulik CM. A double-blind, randomized pilot trial of chromium picolinate for binge eating disorder: Results of the Binge Eating and Chromium (BEACH) Study. *Journal of Psychosomatic Research*. 2013 Jul;75(1):36–42.
17. Zerwas S, Lund BC, **Von Holle A**, Thornton LM, Berrettini WH, Brandt H, et al. Factors associated with recovery from anorexia nervosa. *Journal of Psychiatric Research*. 2013 Jul;47(7):972–9.
18. Knoph, C., **Von Holle, A.**, Zerwas, S., Torgersen, L., Tambs, K., Stoltenberg, C., Reichborn-Kjennerud, T. (2013). Course and predictors of maternal eating disorders in the postpartum period. *International Journal of Eating Disorders*, 46(4), 355–368. doi:10.1002/eat.22088
19. Runfola CD, **Von Holle A**, Trace SE, Brownley KA, Hofmeier SM, Gagne DA, et al. Body Dissatisfaction in Women Across the Lifespan: Results of the UNC-SELF and Gender and Body Image (GABI) Studies. *Eur Eat Disord Rev*. 2013 Jan;21(1):52–9.
20. Gagne DA, **Von Holle A**, Brownley KA, Runfola CD, Hofmeier S, Branch KE, et al. Eating disorder symptoms and weight and shape concerns in a large web-based convenience sample of women ages 50 and above: Results of the gender and body image (GABI) study. *International Journal of Eating Disorders*. 2012.

21. Ulman TF, **Von Holle A**, Torgersen L, Stoltenberg C, Reichborn-Kjennerud T, Bulik CM. Sleep disturbances and binge eating disorder symptoms during and after pregnancy. *Sleep*. 2012;35(10):1403–11.
22. Zerwas S, **Von Holle A**, Torgersen L, Reichborn-Kjennerud T, Stoltenberg C, Bulik CM. Maternal eating disorders and infant temperament: Findings from the Norwegian mother and child cohort study. *International Journal of Eating Disorders*. 2012 May;45(4):546–55.
23. Unikel C, **Von Holle A**, Bulik C, Ocampo R. Disordered eating and suicidal intent: The role of thin ideal internalisation, shame and family criticism. *European Eating Disorders Review*. 2012 Jan;20(1):39–48.
24. Siega-Riz AM, **Von Holle A**, Haugen M, Meltzer HM, Hamer R, Torgersen L, et al. Gestational weight gain of women with eating disorders in the Norwegian pregnancy cohort. *International Journal of Eating Disorders*. 2011 Jul;44:428–34.
25. Reyes-Rodriguez ML, **Von Holle A**, Ulman TF, Thornton LM, Klump KL, Brandt H, et al. Posttraumatic Stress Disorder in Anorexia Nervosa. *Psychosomatic Medicine*. 2011 Jun 28;73(6):491–7.
26. Meltzer-Brody S, Zerwas S, Leserman J, **Von Holle A**, Regis T, Bulik C. Eating Disorders and Trauma History in Women with Perinatal Depression. *Journal of Women's Health*. 2011 Jun;20(6):863–70.
27. Dellava JE, **Von Holle A**, Torgersen L, Reichborn-Kjennerud T, Haugen M, Meltzer HM, et al. Dietary supplement use immediately before and during pregnancy in Norwegian women with eating disorders. *International Journal of Eating Disorders*. 2011 May;44(4):325–32.
28. Zucker N, **Von Holle A**, Thornton LM, Strober M, Plotnicov K, Klump KL, et al. The significance of repetitive hair-pulling behaviors in eating disorders. *Journal of Clinical Psychology*. 2011 Apr;67(4):391–403.
29. Knoph Berg C, Torgersen L, **Von Holle A**, Hamer RM, Bulik CM, Reichborn-Kjennerud T. Factors associated with binge eating disorder in pregnancy. *Int J Eat Disord*. 2011 Mar;44(2):124–33.
30. Reyes-Rodriguez ML, Sala M, **Von Holle A**, Unikel C, Bulik C, Camara-Fuentes L, et al. A Description of Disordered Eating Behaviors in Latino Males. *Journal of American College Health*. 2011 Jan 21;59(4):266–72.
31. Reyes-Rodriguez ML, **Von Holle A**, Ulman TF, Thornton LM, Klump KL, Brandt H, et al. Posttraumatic Stress Disorder in Anorexia Nervosa. *Psychosomatic Medicine*. 2011 Jun 28;73(6):491–7.
32. Meltzer-Brody S, Zerwas S, Leserman J, **Von Holle A**, Regis T, Bulik C. Eating Disorders and Trauma History in Women with Perinatal Depression. *Journal of Women's Health*. 2011 Jun;20(6):863–70.
33. Knoph Berg C, Torgersen L, **Von Holle A**, Hamer RM, Bulik CM, Reichborn-Kjennerud T. Factors associated with binge eating disorder in pregnancy. *Int J Eat Disord*. 2011 Mar;44(2):124–33.
34. Torgersen L, Ystrom E, Haugen M, Meltzer HM, **Von Holle A**, Berg CK, et al. Breastfeeding practice in mothers with eating disorders. *Maternal and Child Nutrition*. 2010 Jul;6(3):243–52.
35. Reyes-Rodriguez ML, Franko DL, Matos-Lamourt A, Bulik CM, **Von Holle A**, Camara-Fuentes LR, et al. Eating Disorder Symptomatology: Prevalence Among Latino College Freshmen Students. *Journal of Clinical Psychology*. 2010 Jun;66(6):666–79.

36. Reba-Harrelson L, **Von Holle A**, Hamer RM, Torgersen L, Reichborn-Kjennerud T, Bulik CM. Patterns of maternal feeding and child eating associated with eating disorders in the Norwegian Mother and Child Cohort Study (MoBa). *Eating Behaviors*. 2010 Jan;11(1):54–61.
37. Kronenfeld LW, Reba-Harrelson L, **Von Holle A**, Reyes ML, Bulik CM. Ethnic and racial differences in body size perception and satisfaction. *Body Image*. 2010 Mar;7(2):131–6.
38. Bulik CM, Hoffman ER, **Von Holle A**, Torgersen L, Stoltenberg C, Reichborn-Kjennerud T. Unplanned Pregnancy in Women With Anorexia Nervosa. *Obstetrics & Gynecology*. 2010 Nov;116(5):1136–40.
39. **Von Holle A**, Pinheiro AP, Thornton LM, Klump KL, Berrettini WH, Brandt H, et al. Temporal patterns of recovery across eating disorder subtypes. (vol 42, pg 108, 2008). *Australian and New Zealand Journal of Psychiatry*. 2009;43(8):784–784.
40. Swann RA, **Von Holle A**, Torgersen L, Gendall K, Reichborn-Kjennerud T, Bulik CM. Attitudes Toward Weight Gain During Pregnancy: Results from the Norwegian Mother and Child Cohort Study (MoBa). *International Journal of Eating Disorders*. 2009 Jul;42(5):394–401.
41. Reba-Harrelson L, **Von Holle A**, Hamer RM, Swann R, Reyes ML, Bulik CM. Patterns and prevalence of disordered eating and weight control behaviors in women ages 25–45. *Eat Weight Disord*. 2009 Dec;14(4):e190–198.
42. Bulik CM, Hamer RM, Crosby R, Root TL, **Von Holle A**, Thornton L. International Journal of Eating Disorders: Statistical formatting requirements and reporting guidelines. *International Journal of Eating Disorders*. 2009 Apr;42(3):193–4.
43. Bulik CM, **Von Holle A**, Siega-Riz AM, Torgersen L, Lie KK, Hamer RM, et al. Birth Outcomes in Women with Eating Disorders in the Norwegian Mother and Child Cohort Study (MoBa). *International Journal of Eating Disorders*. 2009 Jan;42(1):9–18.
44. Bulik CM, Hamer RM, Crosby R, Root TL, **Von Holle A**, Thornton L. International Journal of Eating Disorders: Statistical Formatting Requirements and Reporting Guidelines. *International Journal of Eating Disorders*. 2009 Apr;42(3):193–4.
45. **Von Holle A**, Pinheiro AP, Thornton LM, Klump KL, Berrettini WH, Brandt H, et al. Temporal patterns of recovery across eating disorder subtypes. *Australian and New Zealand Journal of Psychiatry*. 2008;42(2):108–17.
46. Torgersen L, **Von Holle A**, Reichborn-Kjennerud T, Berg CK, Hamer R, Sullivan P, et al. Nausea and Vomiting of Pregnancy in Women with Bulimia Nervosa and Eating Disorders Not Otherwise Specified. *International Journal of Eating Disorders*. 2008 Dec;41(8):722–7.
47. Siega-Riz AM, Haugen M, Meltzer HM, **Von Holle A**, Hamer R, Torgersen L, et al. Nutrient and food group intakes of women with and without bulimia nervosa and binge eating disorder during pregnancy. *American Journal of Clinical Nutrition*. 2008 May;87(5):1346–55.
48. Reba-Harrelson L, **Von Holle A**, Thornton LM, Klump KL, Berrettini WH, Brandt H, et al. Features associated with diet pill use in individuals with eating disorders. *Eat Behav*. 2008 Jan;9(1):73–81.
49. Crisafulli MA, **Von Holle A**, Bulik CM. Attitudes towards anorexia nervosa: The impact of framing on blame and stigma. *International Journal of Eating Disorders*. 2008 May;41(4):333–9.
50. Bulik CM, **Von Holle A**, Gendall K, Lie KK, Hoffman E, Mo XF, et al. Maternal eating disorders influence sex ratio at birth. *Acta Obstetrica Et Gynecologica Scandinavica*. 2008;87(9):979–81.

51. Berg CK, Bulik CM, **Von Holle A**, Torgersen L, Hamer R, Sullivan P, et al. Psychosocial factors associated with broadly defined bulimia nervosa during early pregnancy: findings from the Norwegian mother and child cohort study. *Australian and New Zealand Journal of Psychiatry*. 2008 May;42(5):396–404.
52. Pinheiro AP, Thornton LM, Plotonicov KH, Tozzi F, Klump KL, Berrettini WH, et al. Patterns of menstrual disturbance in eating disorders. *International Journal of Eating Disorders*. 2007 Jul;40(5):424–34.
53. Bulik CM, **Von Holle A**, Hamer R, Knoph Berg C, Torgersen L, Magnus P, et al. Patterns of remission, continuation and incidence of broadly defined eating disorders during early pregnancy in the Norwegian Mother and Child Cohort Study (MoBa). *Psychological Medicine*. 2007 May 10;37:1109.

Complete list of published works in my bibliography: <https://bit.ly/32Yq1Wj>

MANUSCRIPTS IN PREPARATION

- Von Holle A, North KE, Gahagan S, et al. *In preparation*. Infant Growth Trajectories and Lipid Levels in Adolescence: Evidence from a Chilean Infancy Cohort. *American Journal of Epidemiology*
- Von Holle A, O'Brien KM, Sandler DP, Janicek R, Weinberg, CR. *In preparation*. Toenail and serum measures as biomarkers of iron levels. *Journal of trace elements in medicine and biology*
- Von Holle A, O'Brien KM, Sandler DP, Janicek R, Weinberg, CR. *In preparation*. Characterizing the association between BMI and breast cancer risk by menopause status and time. *Cancer Epidemiology*

ORAL PRESENTATIONS

- **Von Holle A**, North KE, Gahagan S, Blanco, E, et al. Infant Growth Trajectories and Lipid Levels in Adolescence: Evidence from a Chilean Infancy Cohort. Oral presentation at American Heart Association EPI/Lifestyle; 2018; New Orleans, Louisiana.
- **Von Holle A**, Thornton L, Kaye W, Bulik C. Conditional Probability and Rate of Remission of Eating Disorders. Oral presentation at: International Conference of Eating Disorders; 2007; Baltimore, Maryland.
- **Von Holle A**. Associations between Partner-Based Childcare and Fertility of Married Working Mothers. Refereed roundtable presentation at: Annual meeting of the American Sociological Association; 2006; Montreal, Canada.
- **Von Holle A**, Suchindran C. Data depth and infant mortality differentials. Oral presentation at: Eastern North American Region of the International Biometric Society (ENAR); 2003; Tampa, Florida.

POSTER PRESENTATIONS

- **Von Holle A**, O'Brien KM, Sandler DP, Janicek R, Weinberg CR. Association Between Serum Iron Biomarkers and Breast Cancer. Poster presented at the Society of Epidemiological Research annual meeting; 2020; Virtual.

- **Von Holle A**, O'Brien K, Sandler DP, Weinberg CR. Familial aggregation of age of onset for breast cancer risk. Poster presented at the Society of Epidemiological Research annual meeting; 2019; Minneapolis, MD.
- **Von Holle A**, North KE, Gahagan S, Blanco E, et al. Sociodemographic predictors of early postnatal growth. Poster presented at the Society of Epidemiological Research annual meeting; 2018; Baltimore, MD.
- **Von Holle A**, North KE, Gahagan S, Blanco E, et al. Infant Growth As An Effect Modifier Of Genetic-Lipid Associations: Evidence From A Chilean Infancy Cohort. Poster presented at the American Heart Association EPI/Lifestyle annual meeting; 2018; New Orleans, Louisiana.
- **Von Holle A**, North KE. Confirmatory factor analysis (CFA) of multivariate lipid distributions across time and race-ethnic groups: United States, 2003-2012. Poster presented at the American Heart Association EPI/Lifestyle annual meeting; 2017; Portland, Oregon.
- **Von Holle A**, Justice, A, North KE, et al. Lipid-related Genetic Variants and Lipid Outcomes in a Cohort of Chilean Children. Poster presented at the American Heart Association EPI/Lifestyle annual meeting; 2017; Portland, Oregon.
- **Von Holle A**, North KE, Gahagan S, Tao R. The utility of standardized or crude weight measures in modeling of postnatal growth trajectories: Are there differences? Poster presented at the 2016 Epidemiology Congress of the Americas, Miami, Florida.
- **Von Holle A**, North KE, Kang E, Blanco E, Gahagan S. Childhood BMI Associated with Low HDL-C Levels in Adolescence in a Chilean Cohort. Poster presented at the American Heart Association EPI/Lifestyle annual meeting; 2015; Baltimore, Maryland.
- **Von Holle A**. U.S. Women's Labor Force Participation, Children and Change: 1980-2000. Poster presented at the Population Association of America annual meeting; 2005; Philadelphia, Pennsylvania.
- **Von Holle A**, Suchindran C. A Non-Parametric Application for Exploratory Multivariate Data Analysis Using Infant Mortality Rates. Poster presented at the Population Association of America annual meeting; 2004; Boston, Massachusetts.

TEACHING EXPERIENCE

National Institute of Environmental Health Sciences	Research Triangle Park, NC
Planned and co-lead the "Mentoring of Junior Faculties and Fellows" 1-hour session at the Biostatistics and Computational Biology Branch retreat	October 2019
Guest lecturer, "Introduction to Statistics and Experimental Design"	January 2020
University of North Carolina, Chapel Hill	Chapel Hill, NC
Teaching Assistant, Advanced Epidemiologic Methods	Spring 2016
Guest lecturer, CEED postdoctoral seminar series: "Statistical Analysis Plans in Research"	2008-2012

RELATED PROFESSIONAL SERVICE

Society of Epidemiologic Research	
Symposium co-chair: "Polygenic Risk Scores: challenges and opportunities for population health equity"	December 2020
2021 meeting abstract reviewer	February 2021

National Institute of Environmental Health Sciences	Research Triangle Park, NC
Trainee Assembly Steering Committee Member	2020-2021
Summer Intern program poster judge	July 2019

National Institutes of Health Special Emphasis Panel/Scientific Review Group	Bethesda, MD
Guest/substitute member for ZMH1 ERB-D (02), HIV Prevention in MSM	May 2011
Guest/substitute member for Interventions Committee for Adult Disorders (ITVA)	October 2011

Journal Reviews

BMJ Open

PROFESSIONAL DEVELOPMENT TRAINING

National Institute of Environmental Health Sciences	Research Triangle Park, NC
‘Writing from the Reader's Perspective’ 1-day workshop	November 2018
‘Write Winning NIH Grant Proposals’ 1-day workshop	February 2019
‘Scientists Teaching Science’, a 9-week pedagogy course	Spring 2019
Research Mentor Training	May 2019

PROFESSIONAL ASSOCIATIONS

Society of Epidemiologic Research	2013-2021
American Heart Association	2015-2021
American Association for Cancer Research	2020-2021