

Curriculum Vitae

MARIE ELIZABETH THOMA, Ph.D., M.H.S.

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CERTIFICATION

I have read the following and certify that this curriculum vita is a current and accurate statement of my professional record.

Signature _____ Date 6/22/17

I. PERSONAL INFORMATION

Academic Appointments at University of Maryland

Aug. 2016 – present **Assistant Professor**, Department of Family Science

Nov. 2016 – present **Faculty Associate**, Maryland Population Research Center

Other Employment

Jan. 2013 – Aug. 2016 **Senior Service Fellow, Statistician**
Reproductive Statistics Branch, Division of Vital Statistics,
National Center for Health Statistics, Centers for Disease Control
and Prevention (Hyattsville, MD)

Dec. 2009 – Jan. 2013 **Postdoctoral Intramural Research Fellow**
Epidemiology Branch, Division of Intramural Population Health
Research, *Eunice Kennedy Shriver* National Institute of Child
Health and Human Development, National Institutes of Health
(Rockville, MD)

Jun. 2005 – Jul. 2009 **Graduate Research Assistant**
Department of Population, Family, and Reproductive Health, Johns
Hopkins Bloomberg School of Public Health, Johns Hopkins
University (Baltimore, MD)

May 2008 – Jun. 2008 **Research Assistant**
Save the Children, Saving Newborn Lives, Survey-based

Indicators for Monitoring and Evaluation of Newborn Health Programs (Washington, D.C.)

Aug. 2002 – Aug. 2004

Research Program Coordinator

Rakai Health Sciences Program, Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University (Baltimore, MD)

Nov. 2000 – Jul. 2002

Research Program Coordinator

Rakai Health Sciences Program, Mailman School of Public Health, Columbia University (New York, NY)

Educational Background

2013	Postdoc	Epidemiology Branch, Division of Intramural Population Health Research, National Institutes of Health (Rockville, MD)
2009	PhD	Department of Population, Family, and Reproductive Health Concentration: Reproductive and Perinatal Epidemiology, Johns Hopkins Bloomberg School of Public Health (Baltimore, MD)
2009	MHS	Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health (Baltimore, MD)
2000	BA	Department of Anthropology, Nutrition minor, <i>summa cum laude</i> University of Pennsylvania (Philadelphia, PA)
1998		Pacific Island Studies School for International Training (Samoa/Fiji)

II. RESEARCH, SCHOLARLY, AND PROFESSIONAL ACTIVITIES

Refereed Journals

Refereed Journal Articles (# mentored by Dr. Thoma, * senior authorship)

Ahrens KA, Rossen LM, **Thoma ME**, Warner M, Simon AE. Birth Order and Injury-Related Infant Mortality in the U.S. *Am J Prev Med.* 2017 Jun 27. [Epub ahead of print] PMID: 28666774.

MacDorman MF, Declercq E, **Thoma ME**. Trends in Maternal Mortality by Sociodemographic Characteristics and Cause of Death in 27 States and the District of Columbia. *Obstet Gynecol.* 2017 May;129(5):811-818. PMID: 28383383.

Polis C, Cox C, Tunculp O, McLain A, **Thoma M***. Estimating infertility prevalence in low-to-middle-income countries: an application of a current duration approach to Demographic and Health Survey data. *Hum Reprod.* 2017 Feb 15: 1-11 [Epub ahead of print]. PMID: 28204493. *Open Access funded by the World Health Organization.*

Ahrens K, **Thoma ME**, Rossen LM, Warner M, Simon A. Plurality of Birth and Infant Mortality Due to External Causes in the United States, 2000-2010. *Am J Epidemiol*. 2017 Feb 9: 1-10. [Epub ahead of print] PMID: 28180240

Wagman JA, Charvat B, **Thoma ME**, Ndyanabo A, Nalugoda F, Ssekasanvu J, Kigozi G, Serwadda D, Kagaayi K, Wawer MJ, Gray RH. Intimate Partner Violence as a Predictor of Marital Disruption in Rural Rakai, Uganda: A Longitudinal Study. *Int J Public Health*. 2016 Sep 13. [PMID: 27624624, Epub ahead of print].

Wagman J, Gray RH, Campbell J, **Thoma M**, Ndyanabo A, Ssekasanvu J, Nalugoda F, Kagaayi J, Nakigozi G, Serwadda D, Brahmabhatt H. Effectiveness of an integrated intimate partner violence and HIV prevention intervention in Rakai, Uganda: analysis of an intervention in an existing cluster randomised cohort. *Lancet Glob Health*. 2015 Jan;3(1):e23-33. [PMID:25539966]

McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting. *Stat Med*. 2014 Oct 15;33(23):3961-72. (Featured Article). [PMID:24862959]

Hunsberger S, Albert P, **Thoma ME**. Approaches for retrospective sampling for longitudinal transition regression models. *Statistics and its Interface*. 2014; 7(1): 75-85.

Cheon K, **Thoma ME**, Kong X, Albert PS. A mixture of transition models for heterogeneous longitudinal ordinal data: with applications to longitudinal bacterial vaginosis data. *Stat Med*, 2014 Mar 27. [Epub ahead of print] [PMID: 24676689]

Buck Louis GM., Hediger ML, Bell EM, Kus CA, Sundaram R, McLain A, Yeung E, Hills EA, **Thoma ME**, Druschell CM. Methodology for Establishing a Population-Based Birth Cohort Focusing on Couple Fertility and Children's Health, the Upstate KIDS Study. *Paediatr Perinat Epidemiol*. 2014 May; 28(3): 191-202. [PMID: 24665916]

Louis JF#, **Thoma ME**, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. The prevalence of couple infertility in the United States from a male perspective: evidence from a nationally-representative sample, *Andrology*, 2013 Sep; 1(5): 741-8. [PMID: 23843214]. 2016 *Andrology meeting (Rotterdam, Netherlands)* - 2nd most cited article in the journal *Andrology* contributing to the 2015 impact factor.

Thoma ME, Louis JF, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. Prevalence of infertility in the United States as estimated by the current duration approach and a traditional constructed approach. *Fertil Steril*. 2013 Apr;99(5): 1324-1331. [PMID: 23290741].

Thoma ME, Hediger ML, Sundaram R, Chen Z, Peterson CM, Croughan MS, Buck Louis GM, for the ENDO Study Working Group. Comparing Apples and Pears: Women's Perceptions of Their Body Size and Shape. *J Womens Health (Larchmt)*. 2012 Oct;21(10):1074-81. [PMID: 22873752]

Sanders KL#, **Thoma ME**, Yu K, Albert PS. An evaluation of the natural history of bacterial vaginosis using transition models. *Sex Transm Dis*. 2011 Dec;38(12):1131-6. [PMID: 22082724]

Thoma ME, Gray RH, Kiwanuka N, Wang MC, Sewankambo N, Wawer M. The natural history of bacterial vaginosis (BV) diagnosed by Gram stain among women in Rakai, Uganda. *Sex Transm Dis*. 2011 Nov;38(11):1040-1045. [PMID: 21992981]

Thoma ME, Klebanoff M, Rovner A, Nansel T, Neggers Y, Andrews W, Schwebke J. Bacterial vaginosis (BV) is associated with dietary indices. *J Nutr*. 2011, Sep;141(9):1698-704. [PMID: 21734062]

Thoma ME, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. The Short-term Variability of Bacterial Vaginosis (BV) Diagnosed by Nugent Gram Stain Criteria among Sexually Active Women in Rakai, Uganda. *Sex Transm Dis*. 2011 Feb;38(2):111-6. [PMID: 20921931]

Thoma ME, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. Longitudinal changes in vaginal microbiota composition assessed by Gram-stain among never sexually active pre- and postmenarcheal adolescents in Rakai, Uganda. *J Pediatr Adolesc Gynecol*. 2011 Feb;24(1):42-7. [PMID: 20709584]

Invited Reviews of Journal Articles

Thoma ME. Measuring Infertility: Searching for Consensus. *J Womens Health (Larchmt)*. 2015 Jul; 24(7):541-3. [PMID: 26172995].

Perspectives, Opinions, and Letters

Ahrens KA, **Thoma ME**, Rossen LM. Interpregnancy Interval and Adverse Pregnancy Outcomes: An Analysis of Successive Pregnancies. *Obstet Gynecol*. 2017 Aug;130(2):464.

Smarr M, Sapra K, Gemmill A, Kahn L, Wise L, Lynch C, Factor-Litvak P, Mumford S, Skakkebaek N, Slama R, Lobdell D, Stanford J, Jensen T, Boyle EH, Eisenberg M, Turek P, Sundaram R, **Thoma ME**, Buck Louis G. Is human fecundity changing? A discussion of research and data gaps precluding us from having an answer. *Hum Reprod*. 2017 Jan 30. [Epub ahead of print] PMID: 2813775. *Opinion letter of participants of the National Institute of Health and Human Development workshop – Is Human Fecundity Changing? September 10-11, 2015.*

Thoma M, Gray RH, Kiwanuka N, Serwadda D, Wawer M. Unsafe injections and transmission of HIV-1 in sub-Saharan Africa. *Lancet*. 2004 May 15; 363(9421):1650-1. [PMID: 15145649]

Gray RH, **Thoma M**, Kiwanuka N, Serwadda D, Wawer M. HIV transmission through health care in sub-Saharan Africa. *Lancet*. 2004 Nov.6-12; 364(9446):1666.

Articles Submitted to Refereed Journals

MacDorman M, DeClercq E, **Thoma ME**. Trends in Texas Maternal Mortality by Socio-Demographic Characteristics and Cause of Death, 2006-2015.

McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Cautionary note on “Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting.”

Articles in preparation

Thoma ME, Gray RH, Wang MC, Sewankambo N, Wawer M. Risk and protective factors associated with weekly observation time spent with bacterial vaginosis among women in Rakai, Uganda.

Thoma ME, Drew LB#, Kim T, Hirai A, Shenassa E, Fenelon A. Estimating the contribution of social and health determinants to racial disparities in preterm birth in the United States [Funding through RASA Summer Research award]

Thoma ME, Ahrens K, Rossen LM, Warner M, Simon A. The association between interpregnancy interval and external causes of infant mortality, 2011-2015. [Funding through subcontract with the Office of Population Affairs]

Thoma ME, Drew LB. The association between macrosomia and maternal delivery complications among full term, singleton, first births in the United States. [Abstract accepted for oral presentation submitted to the 2017 American Public Health Association conference]

Thoma ME, Fenelon A, Ahrens K. - Kittagawa

Lama Y#, **Thoma ME**. The association between interpregnancy interval and early prenatal care utilization. (student research project)

Vafai Y#, Lewin AB, Roy K, **Thoma ME**. Paternity Acknowledgement on Birth Certificates and Maternal Prenatal Health Behaviors in the United States. [Abstract accepted for poster presentation to the 2017 American Public Health Association conference].

Swartzendruber A, Steiner RJ, **Thoma ME**. State-level school-based condom instruction and STI rates. [Abstract accepted to the 2017 National Sexual Health Conference]

Ahrens K, **Thoma ME**, Copen CE, Brittini Frederiksen, Emily Decker, Lorrie Gavin, Sue Moskosky. Short interpregnancy interval and pregnancy intention by maternal age, National Survey of Family Growth, 2006-2015. [Abstract submitted to 2017 Society for Pediatric and Perinatal Epidemiologic Research Conference]

Drew L, Mittal M, **Thoma M**, Steinberg J. Multiple Types of Intimate Partner Violence and Effectiveness Level of Contraceptive Selection Post-Abortion.

Biswas R, Kong X, **Thoma ME**, Gray RH, Wawer MJ. Functional data analysis in characterizing bacterial vaginosis patterns and identifying pattern specific risk factors.

Gleason J, Thoma ME, Shenassa E. Infertility and cardiovascular disease.

Gleason J#, Shenassa E, Thoma ME. Telomeres and endometriosis and fibroids.

Conferences and Invited Talks

Invited Talks

Office of Population Affairs. Birth Spacing Expert Workgroup Meeting. Measurement Issues with U.S. Vital Records Data – Assessment of Interpregnancy Intervals and selected sociodemographic, maternal, and perinatal outcomes. Rockville, MD. September 14-15, 2017.

Estimating the prevalence of infertility in low-to-middle-income countries. The Guttmacher Institute, New York, NY. May 11th, 2017.

Infertility in the United States: More than Just Pregnancy or Its Absence. Department of Family Science, University of Maryland, College Park. College Park, MD. March 23, 2016.

Infertility Prevalence in the United States: An Application of a Current Duration Approach. Department of Sociology and Anthropology, University of Maryland, Baltimore County. Catonsville, MD. December 14, 2015.

Infertility Prevalence in the United States: An Application of a Current Duration Approach. Office of Population Affairs, Department of Health and Human Services. Rockville, MD. December 9, 2015.

Population-based Measurement of Fecundity: Considerations for Data Collection and Surveillance. Is Human Fecundity Changing? (Workshop and Webinar) *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, NIH. Bethesda, MD. Sept. 10-11, 2015.

The estimation of infertility prevalence in the United States – application of a current duration approach to a nationally representative sample. Intramural Research Program on Reproductive and Adult Endocrinology, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, NIH. Bethesda, MD. Feb. 7, 2014.

Refereed Presentations (# mentored by Dr. Thoma, * senior authorship)

Thoma ME, Drew LB#. The association between macrosomia and maternal delivery complications among full term, singleton, first births in the United States. Abstract accepted for oral presentation to the 2017 American Public Health Association conference, November 2017, Atlanta, GA.

G. Ryan, B. Van Voorhis, J. E. Stern, C. H. Syrop, M. Mengeling, A. O'Shea, K. Stewart, **M. Thoma**, J. Torner, A. Sadler. Reproductive Health Risk Due To Sexual And Combat-Related Trauma in U.S. Veterans. Accepted for oral presentation to the 2017 American Society for Reproductive Medicine Scientific Congress and Expo, San Antonio, TX, Oct. 28-Nov 1, 2017.

Drew LB, Mittal M, **Thoma ME**, Steinberg JR. Multiple types of intimate partner violence and effectiveness level of contraceptive selection post-abortion. Oral presentation at the 2016 National Council on Family Relations Annual Conference, November 2016, Minneapolis, MN.

Thoma ME, Almond S. Elearning to Improve Birth Data Quality – Coming soon to a hospital near you. Oral presentation at the National Efforts to Improve Health with Vital Statistics Plenary of the 2016 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2016, Kansas City, MO.

Thoma ME, Almond S. Birth Data Quality Elearning System Demonstration. Oral presentation at the 2016 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2016, Kansas City, MO.

Cox C, Polis C, Tunculp O, McLain A, **Thoma M***. Estimating the prevalence of infertility in Nigeria: application of a current duration methodological approach to Demographic and Health Survey data. Oral presentation at the 2016 Population Association of America conference, March/April 2016, Washington, D.C.

Martin J, Lee E, Curtin S, **Thoma M**, Almond, S. Assessing and improving the quality of the new birth data – the good, the bad, and the under-reported. Oral presentation at the 2015 National Conference on Health Statistics, August 2015, Bethesda, MD.

Martin J, Backus K, Reed P, Horon I, Ashliman M, **Thoma M** on behalf of the Birth Data Quality Workgroup. Collaborating to Bridge the Birth Data Quality Gap. Oral presentation at the Data Quality Plenary of the 2015 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2015, Pittsburgh, PA.

Curtin S, Granlund H, **Thoma M**. New Data on Source of Payment for Delivery: Results and Strategies for Improvement. Statistics Plenary. Oral presentation at the 2015 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2015, Pittsburgh, PA.

Wagman J, Gray R, Campbell, **Thoma M**, Ndyababo A, Ssekasanvu J, Nalugoda F, Nakigozi G, Kagaayi J, Serwadda D, Brahmabhatt H. Impact of an intimate partner violence and HIV prevention intervention: A cluster randomized trial in Rakai, Uganda. Oral presentation at the 7th Biennial Conference on Health and Domestic Violence, March 2015, Washington D.C.

Wagman J, Gray R, Campbell J, Ndyababo A, Nalugoda F, Kagaayi J, Nakigozi G, Serwadda D, Brahmabhatt H, **Thoma M**, Rakai Health Sciences Program Research Team. A cluster randomized trial of the impact of an intimate partner violence and HIV prevention intervention on emotional, physical, and sexual abuse, sexual risk, and HIV incidence in Rakai, Uganda. Oral presentation at the 20th International AIDS Conference, July 2014, Melbourne, Australia.

Curtin SC, **Thoma ME**, Uddin S, Martin JM. Preterm Birth and Low Birth Weight by Source of Payment for the Delivery: New Data from the Birth Certificate. Oral presentation at the Population Association of America 2014 Annual Meeting. May 2014, Boston, MA.

McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting. Oral

presentation (Methods for assessing environmental factors on reproductive outcomes) at the 2013 Joint Statistical Meetings, August 2013, Montreal, Canada.

McLain AC, Sundaram R, **Thoma ME**, Buck Louis GM. Semi-parametric grouped backward recurrence Cox model for the analysis of current duration data with preferential reporting. Oral presentation at the 2nd Workshop on Biostatistics and Bioinformatics, Georgia State University, Atlanta, GA. May 12, 2013.

Thoma ME, Louis JF, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. The prevalence of infertility as estimated by a current duration approach and a traditional construct approach. Poster presentation at the 2012 National Institutes of Health Research Festival, October 2012, Bethesda, MD.

Thoma ME, Louis JF, McLain AC, King RB, Trumble AC, Sundaram R, Buck Louis GM. A comparison of measurement approaches for estimating the prevalence of infertility in the National Survey of Family Growth. Oral presentation (Plenary session) at the 2012 Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, June 2012, Minneapolis, MN.

Louis JF, **Thoma M**, Trumble A. Prevalence of couple infertility in the US based on male reporting: evidence from a nationally-representative survey. Poster presentation at the NIH Spring Research Festival, April 2012, Bethesda, MD.

Cheon K, **Thoma ME**, Kong X, Albert PS. A mixture of Markov models for heterogeneous longitudinal ordinal data: with applications to analyzing longitudinal bacterial vaginosis data. Oral presentation at the Eastern North American Region of the International Biometric Society Spring Meeting, April 2012, Washington D.C.

Thoma ME, Hediger ML, Sundaram R, Chen Z, Peterson CM, Croughan MS, Buck Louis GM, for the ENDO Study Working Group. Comparing “apples and pears”: How well do women perceive their body size and shape? Oral presentation at the American Society for Reproductive Medicine 67th Annual Meeting, October 2011, Orlando, FL.

Gray R, Wawer M, **Thoma M**, Serwadda D, Nalugoda F, Li X, Kigozi G, Kiwanuka N, Laeyendecker, Quinn T. Male Circumcision and the risks of female HIV and sexually transmitted infections acquisition in Rakai, Uganda. Oral presentation at the 13th Conference on Retroviral and Opportunistic Infections, February 2006. Denver, CO.

Refereed Posters (# mentored by Dr. Thoma, * senior authorship)

Vafai Y#, Lewin AB, Roy K, **Thoma ME**. Paternity Acknowledgement on Birth Certificates and Maternal Prenatal Health Behaviors in the United States. Abstract accepted for poster presentation to the 2017 American Public Health Association conference, November 2017, Atlanta, GA.

Swartzendruber A, Steiner RJ, **Thoma ME**. State-level school-based condom instruction and STI rates. Poster presentation at the 2017 National Sexual Health Conference, July 2017, Denver, CO.

Thoma ME, Fenelon A, Ahrens K. The contribution of interpregnancy intervals to disparities in preterm birth between non-Hispanic black and non-Hispanic white women, 48 states and the District of Columbia. Poster presentation at the 2017 Society for Pediatric and Perinatal Epidemiology conference, June 2017, Seattle, WA.

Ahrens K, **Thoma M**, Copen C, Frederiksen B, Decker E, Gavin L, Moskosky S. Short interpregnancy interval and pregnancy intention by maternal age, National Survey of Family Growth. Poster presentation at the 2017 Society for Pediatric and Perinatal Epidemiology conference, June 2017, Seattle, WA.

Vafai Y#, Lewin AB, Roy K, **Thoma ME**. Paternity Acknowledgement on Birth Certificates and Maternal Prenatal Health Behaviors in the United States. Poster presentation at Social Justice Day at University of Maryland, College Park, MD, April 18, 2017.

Biswas R, **Thoma M**, Kong X. Functional data analysis in characterizing bacterial vaginosis patterns and identification of pattern-specific risk factors. Poster presentation at the Eastern Northern American Region International Biometric Society 2017 Spring Meeting, March 2017, Washington, D.C.

Drew LB, Mittal M, **Thoma ME**, Steinberg JR. Multiple types of intimate partner violence and effectiveness level of contraceptive selection post-abortion. Poster presentation at the American Public Health Association 2016 Annual Meeting, October 2016, Denver, CO.

Ahrens KA, **Thoma ME**, Rossen LM, Warner M, Simon AE. Plurality and infant mortality due to external causes in the US, 2000-2010. Poster presentation at the 2016 Epidemiology Congress of the Americas, June 2016, Miami, FL.

Ahrens KA, **Thoma ME**, Rossen LM, Warner M, Simon AE. Birth order and infant mortality due to external causes in the US, 2000-2010. Poster presentation at the 2016 Society for Pediatric and Perinatal Epidemiology conference, June 2016, Miami, FL.

Thoma M, Kirmeyer S. Extremely short and short interpregnancy intervals: Differences by maternal demographic characteristics. Poster presentation at the 2015 March of Dimes Prematurity Prevention Conference, November 2015, Arlington, VA.

Thoma M, Kirmeyer S. Short and extremely short interpregnancy intervals: Differences by maternal demographic characteristics. Poster presentation at the 2015 National Conference on Health Statistics, August 2015, Bethesda, MD.

Copen CE, **Thoma ME**, Kirmeyer SE. It's about Time: Data on Interpregnancy Interval using the National Survey of Family Growth and the National Vital Statistics System. Poster presentation at the Population Association of America 2014 Annual Meeting. May 2014, Boston, MA.

Buck Louis GM., Hediger ML, Bell EM, Kus CA, Sundaram R, McLain A, Yeung E, Hills

EA, **Thoma ME**, Druschell CM. Methodology for Establishing a Population-Based Birth Cohort Focusing on Couple Fertility and Children's Health, the Upstate KIDS Study. Poster presentation at the American Society for Reproductive Medicine 69th Annual Meeting, October 2013, Boston, MA. (*withdrawn due to government closure*)

Backus K, Chase M, Straight AM, Reed P, Tretter E, Crawford G, Moyer C, Pagnano S, Justice D, **Thoma M**, Ahuja S. Survey of Birth Data Quality Reporting. Poster presentation at the 2013 National Association for Public Health Statistics and Information Systems (NAPHSIS) Annual Meeting, June 2013, Phoenix, AZ.

Thoma ME, Klebanoff MA, Nansel TR, Hediger ML, Neggers Y. The association between periodontal disease (PD) and dietary fats and cholesterol. Poster presentation at the 2011 Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, June 2011, Montreal, Canada.

Thoma M, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. The Short-term Variability of Bacterial Vaginosis (BV) among Sexually Active Women in Rakai, Uganda. Poster presentation at the 2010 Meeting of the Society for Epidemiologic Research, June 2010, Seattle, WA.

Thoma M, Gray RH, Kiwanuka N, Wang MC, Aluma S, Sewankambo N, Wawer M. Don't throw BV out with the bathwater: risk and protective factors for bacterial vaginosis (BV) in Rakai, Uganda. Poster presentation at the 23rd Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, June 2010, Seattle, WA.

Thoma M, Gray R, Kiwanuka N, Serwadda D, Nalugoda F, Kigozi G, Wang M, Aluma S, Ndyababo A, Wawer MJ. Stage of Puberty and Vaginal Flora Development. Poster presentation at the 18th International Society for Sexually Transmitted Disease Research, July 2009. London, England.

Thoma M, Gray R. Male Circumcision and Genital Ulcer Disease: A meta-analysis. Poster presentation at the 17th International Society for Sexually Transmitted Disease Research, July 2007. Seattle, WA.

Non-Refereed Presentations

Workshops

Thoma M, Gregory E, Mathews T. Getting the Data Right – Best Practices for the National Vital Statistics Birth, Fetal Death, and Linked Birth and Infant Death Data Sets. National Conference on Health Statistics Learning Institute, August 2015, Bethesda, MD.

Professional and Extension Publications

Technical Reports

Martin JA, Osterman MJK, **Thoma ME**. Declines in Triplet and High-order Multiple Births in the United States, 1998-2014. *NCHS Data Brief*. 2016 Apr;243:1-8. [PMID: 27139731]

Thoma ME, Copen CE, Kirmeyer SE. Short Interpregnancy Intervals in 2014: Differences by Maternal Demographic Characteristics. *NCHS Data Brief*. 2016 Apr;240:1-8. [PMID: 27111053]

Mathews TJ, MacDorman MF, **Thoma ME**. Infant Mortality Statistics From the 2013 Period Linked Birth/Infant Death Data Set. *Natl Vital Stat Rep*. 2015. Aug 6;64(9):1-30.

Copen CE, **Thoma ME**, Kirmeyer SE. Interpregnancy Intervals in the United States: A Comparison of Data from the Birth Certificate and the National Survey of Family Growth. *Natl Vital Stat Rep*. 2015 Apr 16;64(3):1-10. [PMID: 26114767]

Thoma ME, Boulet SL, Martin JA, Kissin DM. Births Resulting from Assisted Reproductive Technology: Comparing Birth Certificate and National ART Surveillance System Data, 2011. *Natl Vital Stat Rep*. 2014 Dec;63(8):1-12. [PMID: 25493705]

The Birth Data Quality Workgroup. Efforts to Improve Birth Data Quality: Results from a Survey of Data Quality Practices among US Vital Records Jurisdictions. National Association for Public Health Statistics and Information Systems, May 2014.

Report of a Consultative Meeting on Survey-based Indicators for Monitoring and Evaluation of Newborn Health Programs April 29-30, 2008. Save the Children, Saving Newborn Lives. [prepared initial draft]

Technical Products

Centers for Disease Control and Prevention (CDC). Applying Best Practices for Reporting Medical and Health Information on Birth Certificates. [Internet]. Hyattsville, MD: National Center for Health Statistics (NCHS), CDC; 2016. Available from: www.cdc.gov/nchs/training/BirthCertificateElearning.

Sponsored Research and Programs – Office of Research Administration

Grants and Contracts

Submitted

7/1/17-9/30/17
\$17,498

Atlas Research, LLC Subcontract. HHS Office of Population Affairs (OPA) Title X, HHSP-233201450040A. (PI: Thoma, M)

The Association Between Interpregnancy Interval (IPI) and Risk of Infant Mortality using National Vital Statistics Files from the U.S.

Role: Principal Investigator – Epidemiologist, data analyst

4/1/18-3/31/20
\$239,645

R21, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, National Institutes of Health. (PI: MacDorman, M)

Methodological Issues in Maternal Mortality Research.

Role: Co-Investigator – Epidemiologist, data analyst

Awarded

Summer 2017
\$9,000

Research and Scholarship Award, University of Maryland (PI: Thoma)

Estimating the contribution of social and health determinants to racial

disparities in preterm birth in the United States

Role: Principal Investigator

4/08 – 3/09
\$33,854

R36PS001104-01, Centers for Disease Control and Prevention
(PI: Thoma, ME)

The Natural History of Bacterial Vaginosis and Modes of Transmission, Rakai, Uganda

Role: Principal Investigator

Not Awarded

Submitted 6/17
\$50,000

Tier 1 Seed Grant: Summer 2017 Competition (PI: Mittal, Palit)

Enhancing Healthcare Provider Skills in Gender-Based Violence Assessment and Intervention in India

Role: Co-Investigator - quantitative data assessment, e-learning module

Submitted 3/17
\$147,498

R03, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, National Institutes of Health,

Novel methodologies for estimating the prevalence of infertility and infertility treatment at the population level

Role: Co-Investigator (subcontract) - Epidemiologist

1st submission: Priority Score (38), Percentile (28%)

2nd submission: Priority Score (34), Percentile (20%)

Submitted 12/16
\$150,000

The Alexander and Margaret Stewart Trust (PI: Lewin, Rendell)

Needs Assessment for Phase I of the DC Family Planning Initiative

Role: Co-Investigator – quantitative data assessment

Submitted 9/16
\$100,000

The World Bank/Sexual Violence Research Initiative (PI: Mittal, Palit)

Enhancing Healthcare Provider Skills in Gender-Based Violence Assessment and Intervention in India

Role: Co-Investigator – quantitative data assessment, e-learning module

Other Funded Research not administered by the Office of Research Administration

Consultant on sponsored research

7/14 - 6/18
\$1,003,000

IIR 13-294-2 U.S. Department of Veterans Affairs, Health Services Research and Development Service. (PI: Ryan, G).

Impact of Sexual Assault and Combat-Related Trauma on Fertility in Veterans

Role: Reproductive Epidemiologist (Consultant)

Intramural-sponsored research activities (National Institutes of Health)

5/11 - 1/13

Eunice Kennedy Shriver National Institute of Child Health Human Development. **Approaches for assessing trends in infertility.**

Role: Principal Investigator

- 12/10 – 1/13 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. **New York State Infant Development Screening Program (Upstate KIDS).**
Role: Postdoctoral Researcher
- 12/10 – 1/13 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. **Endometriosis Natural History, Diagnosis, and Outcomes (ENDO)**
Role: Postdoctoral Researcher
- 5/10 – 1/13 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development
Microbial Diversity of Vaginal, Stool, and Urethral Samples in Infants
Role: Principal Investigator
- 12/09 – 1/12 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. **The Effect of Diet on Bacterial Vaginosis and Periodontal Disease**
Role: Principal Investigator

Research Fellowships, Prizes, and Awards (year, award, source)

- 2016 *Special Act award*, Division of Vital Statistics, National Center for Health Statistics, Centers for Disease Control and Prevention – For contribution to leading and development of eLearning training to improve the quality of birth certificate data.
- 2009-2013 *Intramural Research Training Award*, National Institute of Child Health and Human Development, National Institutes of Health (Mentors: Drs. Mark Klebanoff, Mary Hediger, Germaine Buck Louis)
- 2009-2010 *Caroline Cochran Scholarship Fund*, Johns Hopkins Bloomberg School of Public Health
- 2008-2009 *The R. Bradley Sack Family Scholarship Award for Infectious Diseases in the Developing World*, Johns Hopkins Bloomberg School of Public Health
- 2008-2009 *Endowed Fellowship in Family Planning and Reproductive Health*, Johns Hopkins Bloomberg School of Public Health
- 2006-2007 *Endowed Fellowship in Family Planning and Reproductive Health*, Johns Hopkins Bloomberg School of Public Health
- 2004 – 2007 *Predoctoral Fellowship, Johns Hopkins Training Program in STIs*
National Institute of Allergy and Infectious Diseases (PI: Zenilman, J)
Training Grant #T32A1050056

III. TEACHING, MENTORING, AND ADVISING

Courses taught in the past 5 years

<u>Year (Semester)</u>	<u>Course Number & Title (B = blended design)</u>	<u>Enrollment</u>
2017 (Spring)	FMSC 310 Maternal, Child, and Family Health (B)	44
2017 (Fall)	FMSC 310 Maternal, Child, and Family Health (B) FMSC 699 Independent Study (Laura Drew)	

Other courses taught/instruction provided (Year, Role, Course Number & Title)

Johns Hopkins Bloomberg School of Public Health

2009	Teaching Assistant	140.621.04 Statistical Methods in Public Health IV
2007-2008	Teaching Assistant	140.651.01-140.651.04 Methods in Biostatistics I-IV
2006, 2007	Teaching Assistant	380.644.01 Reproductive and Perinatal Epidemiology
2006-2008	Tutor	Statistical Methods in Public Health I-IV
2006	Tutor	Principles of Epidemiology

Teaching Innovations

Software, Applications, Online Education

Centers for Disease Control and Prevention (CDC). Applying Best Practices for Reporting Medical and Health Information on Birth Certificates. [Internet]. Hyattsville, MD: National Center for Health Statistics (NCHS), CDC; 2016. Available from: www.cdc.gov/nchs/training/BirthCertificateElearning.

Instructional Workshops and Seminars Established (Year, Title)

National Institute of Child Health and Human Development, NIH

2011, 2012 (Summer)	Studies in Child Health and Human Development
2011	Reproductive/Nutritional Epidemiology seminar series
2010-2011	Reproductive Endocrinology for Epidemiologists seminar series

Johns Hopkins Bloomberg School of Public Health

2005-2007	Sexually Transmitted Infections seminar series
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Course and Curriculum Development at the University of Maryland

FMSC 310 Maternal, Child, and Family Health (Blended Learning design)

Course and Curriculum Development at the National Institutes of Health

2011, 2012 (Summer)	Studies in Child Health and Human Development
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Research Advising (year, student, role)

Undergraduate

2017 (Fall)	Naomi Zuckerman	Independent Research Study supervisor
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Doctoral

In Progress	Yassaman Vafai	Dissertation committee member
	Allison Schroeder	Dissertation committee member
	Anthony Kondracki	Dissertation committee member/co-chair

	Towanda Street	Dissertation committee member
	Diana Cassar-Uhl	Dissertation committee member
	Yuki Lama	Research internship supervisor
2017-2018	Dane De Silva	Research Assistant supervisor
	Laura B. Drew	Independent Research Study supervisor
2016-2017	Laura B. Drew	Research Assistant supervisor

Other Directed Research – the National Institutes of Health

2017 (Fall)	Northwood High School	Public Health and Data
2012	J. Fredo Louis	Postbaccalaureate Fellow co-mentor <i>Currently a PhD student at University of Utah, Bioinformatics Program</i>
2010	K. Leanne Sanders	Summer Fellow co-mentor

Advising: Other than Directed Research (year, student, role)

Undergraduate

Ongoing	Sabrina Pasta	<i>Nourish: Mommy and Me</i> , faculty advisor
2017	Marlene Musasa	Capstone Interview – Maternal Mortality
	Rachel Jessamy	Capstone Interview – Postpartum Depression

Doctoral

2017 (Spring)	Diana Cassar-Uhl	Teaching Assistant supervisor
2017 (Fall)	Jessica Gleason	Teaching Assistant supervisor
2017-2018	Dane De Silva	Research Direction Advisor
	Laura B. Drew	Research Direction Advisor

Professional and Extension Education

Guest Lectures – University of Maryland (Year/Semester, Course Number/Title, Topic)

2016 (Fall)	FMSC 879 Preparing Future Faculty – Pre- and Postdoctoral Training
2017 (Spring)	FMSC 610 Research Methods in Family Science – Data Analysis I and II
	Maryland Population Research Center Journal Club – Infertility estimation

Guest Lectures – Other institutions (Year/Semester, Title, Topic, Institution)

2016 (Spring)	Reproductive and Perinatal Epidemiology, Fertility and Fecundity, University of South Carolina
2011 (Spring)	Research Fellows Seminar, Reproductive Epidemiology, <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development

Other Teaching Activities

2016-present Teaching and Learning Transformation Center Participant

IV. SERVICE AND OUTREACH

Editorial and Reviewing Activities

Editorial Boards (Year, role, journal)

2017-present Editorial board member Birth: Issues in Perinatal Care

Reviewing Activities for Journals

Ad hoc Reviewer

American Journal of Obstetrics and Gynecology, Obstetrics and Gynecology, Human Reproduction, PLOS One, Journal of Women's Health, Birth: Issues in Perinatal Care, Family Relations, Sexually Transmitted Diseases, American Journal of Epidemiology, British Journal of Obstetrics and Gynecology, Paediatric and Perinatal Epidemiology, Journal of Infectious Diseases in Obstetrics and Gynecology, Maternal and Child Health Journal, Cochrane Review Group on HIV/AIDS, Nursing: Research and Reviews, Sahel Medical Journal, Indian Journal of Medical Research

Reviewing Activities for Agencies and Foundations

2011 Technical Reviewer for NICHD, NIH RFP on "Validation of Retrospectively Reported Time to Pregnancy Data"

Reviewing Activities for Conferences

Abstract review

Society for Pediatric and Perinatal Epidemiology, Society for Epidemiologic Research, National Conference on Health Statistics

Committees, Professional & Campus Service

Campus Service – Department of Family Science

2016-2017 Member, Maternal and Child Health Program Committee
Member, Maternal and Child Health Training Grant Committee
Member, Graduate Program Committee
Member, Communications and Website Committee
Judge, Research Symposium, FMSC 302
Panelist, Family Science Faculty Round Table (Oct. 5, 2016)

Campus Service – School of Public Health

2017 (Summer) Member, Grant Writing Boot Camp

Campus Service – University

2016-2017 Member, ADVANCE Program, Keeping our Faculties Program
Developed a writing circle with two ADVANCE faculty in Sociology and Criminology
Participant, ADVANCE Program, Writing workshop (Feb. 24, 2017)

Offices and Committee Memberships

Current professional memberships

Delta Omega Honors Society (Alpha Chapter)
Society for Pediatric and Perinatal Epidemiologic Research

Population Association of America
American Public Health Association
Interdisciplinary Association for Population Health Science
Association of Teachers of Maternal and Child Health

Prior Institutional Service

National Center for Health Statistics, CDC

- 2013-2016 Co-lead, E-learning subgroup of Birth Data Quality Workgroup. National Vital Statistics collaboration to develop web-based training for “Achieving Best Practices for Reporting Birth Certificate Medical and Health Data”
- 2013-2016 DVS Representative, NCHS Data Analysis Group
- 2015-2016 DVS Representative, NCHS Website development working group
- 2013-2016 Member, Birth Data Quality workgroup
- 2015-2016 Member, Pediatric and Perinatal Journal Club
- 2015-2016 Member, Decomposition workgroup

National Institute for Child Health and Human Development, NIH

- 2009-2012 Member, Reproductive Health Journal Club
- 2009-2012 Member, Epidemiologic Methods Journal Club

Johns Hopkins Bloomberg School of Public Health

- 2013 Panel member, Johns Hopkins Alumni Career Mentoring Event (April 4th)
- 2005-2009 Member, Sexually Transmitted Infections Journal Club
- 2007-2008 Coordinator, Biostatistics MHS Journal Club
- 2006-2007 Member, Organizing committee for PFRH Departmental Research Day

University of Pennsylvania

- 1999-2000 Executive board member, Mortar Board National Honors Society
- 2000 Member, Golden Key International Honors Society

External Service and Consulting

Consultancies

Media Contributions – Quoted or research featured

Exit interview: NOW’s O’Neill on GOP health policy and maternal deaths

- <https://www.usatoday.com/story/news/politics/2017/06/18/exit-interview-nows-oneill-gop-health-policy-and-maternal-deaths/102811984/>
- <http://sph.umd.edu/news-item/usa-today-exit-interview-now-s-o-neill-gop-health-policy-and-maternal-deaths>

What the Senate Can Give for Mother’s Day

- <http://www.cnn.com/2017/05/13/opinions/mothers-day-from-senate-jensen-opinion/>

UMD Researchers Uncover Alarming Trend in U.S. Maternal Death Statistics

- <https://bsos.umd.edu/featuredstory/3064>
- https://umdrighnow.umd.edu/news/umd-researchers-uncover-alarming-trend-us-maternal-death-statistics?utm_source=Publicate&utm_medium=email&utm_content=UMD+Researchers+U

[ncover+Alarming+Trend+in+U.S.+Maternal+Death+Statistics&utm_campaign=170413-Email](#)

Celebrating Women Making a Difference

- <http://sph.umd.edu/news-item/celebrating-women-making-difference>

Dr. Thoma verifies cost-effective approach for generating infertility estimates

- <http://sph.umd.edu/departement/fmsc/news-item/dr-thoma-verifies-cost-effective-approach-generate-infertility-estimates>
- <http://sph.umd.edu/news-item/dr-thoma-verifies-cost-effective-approach-generate-infertility-estimates>
- <https://publiscate.it/pub/ILILs0oW9OVgyaM1ffJzHq0F817771>
- <http://www.aspph.org/maryland-researcher-verifies-cost-effective-approach-to-generate-infertility-estimates/>

Estimating Infertility: Conceiving of a new approach

- https://www.globalhealthnow.org/2017-02/estimating-infertility-conceiving-new-approach?utm_source=Global+Health+NOW+Main+List&utm_campaign=7421dbbced-EMAIL_CAMPAIGN_2017_02_15&utm_medium=email&utm_term=0_8d0d062dbd-7421dbbced-858767&utm_source=IHP+Newsletter&utm_campaign=1e8a5fbcbc-EMAIL_CAMPAIGN_2017_02_17&utm_medium=email&utm_term=0_14504ce43d-1e8a5fbcbc-298052537

and above story featured in <http://www.internationalhealthpolicies.org/weekly-topics/>
New faculty appointment, University of Maryland.

- <https://sph.umd.edu/news-item/departement-family-science-welcomes-newest-faculty-member-assistant-professor-dr-marie>
- <https://sph.umd.edu/news-item/new-faculty-appointments-2016-2017>

U.S. test-tube births underreported by states, study finds. David Beasley, Reuters|World. December 10, 2014.

- www.reuters.com/article/us-usa-ivf-births-idUSKBN0JO0BY20141210

Almost one in six couples face infertility: study. Genevra Pittman, Reuters|Life. January 11, 2013.

- www.reuters.com/article/us-couples-infertility-idUSBRE90A13Y20130111

Community and Other Service

2016-present Participant, Gymkana Saturday classes

V. OTHER INFORMATION

Skills and Languages

Programming

STATA (advanced), R, SAS, Cochrane Collaboration Review Manager

Languages

German (working proficiency); Samoan (elementary proficiency)

Continuing Education/Professional Development

- Media Training, National Center for Health Statistics (July 15, 2015)
- How to Prepare and Give Better Presentations, National Center for Health Statistics (July 14, 2015)

- R Short Course, National Center for Health Statistics (January 14 – February 18, 2015)
- Introduction to the SAS Statistical Package, Johns Hopkins Graduate Summer Institute of Epidemiology and Biostatistics (June 24-28th, 2013)
- Centers for Disease Control and Prevention Ambassadors Program, CDC (April 24, 2013)
- Introduction to Web Survey Usability Design and Testing Workshop, Baltimore-Washington Chapter of the American Association for Public Opinion Research (April 4, 2013)
- SAS Programming Essentials for Experienced SAS Enterprise Guide Users, Computer Training Program, Center for Information Technology, NIH (February 2012)
- SAS Enterprise Guide 1: Querying and Reporting, Computer Training Program, Center for Information Technology, NIH (January 2012)
- Media Training, Oratorio Media and Presentation Training, Washington D.C. (November 2, 2011)
- Measurement Error in Dietary Intake Data Webinar Series, Cancer Control and Population Sciences, National Cancer Institute (September – December, 2011)
- Introduction to R, Computer Training Program, Center for Information Technology, NIH (May 2011)
- Good Clinical Practice Certification, NIAID, NIH (April 2011)
- Contractor Performance Assessment Reporting System, NIH (February 14th, 2011)
- Institute for Genome Sciences, Genomics Workshop at the University of Maryland School of Medicine (April 20-23, 2010)
- One-day training on BV diagnosis and scoring, Dr. Sharon Hillier's Lab, Magee Women's Research Institute (2008)
- Managing Federal Grants and Cooperative Agreements for Recipients (2004), Management Concepts