

Amalia (Meier) Magaret, PhD

Personal Data

Place of Birth: Maryville, Missouri, USA
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Education

1992 BS in Chemistry/Math, University of Notre Dame
1997 MS in Applied Statistics, Western Michigan University
2001 PhD in Biostatistics, University of Washington

Post Graduate Training

1998-00 Statistician, Department of Obstetrics and Gynecology, University of Washington, Seattle, WA
1998-05 Statistician and Consultant, University of Washington research projects at Kenyatta National Hospital, Nairobi, Kenya
2000-01 Pre-Doctoral Fellow, Center for AIDS/STD Research, Seattle, WA
2002-03 Post-Doctoral Research Associate, SCHARP, Fred Hutchinson Cancer Research Center, Seattle, WA
2003-04 Clinical Research Associate, Infectious Diseases Fred Hutchinson Cancer Research Center, Seattle, WA

Faculty Positions Held

2004-10 Research Assistant Professor, Laboratory Medicine, UW
2004-10 Joint Assistant Member, Biostatistics, FHCRC
2004+ Member of the Graduate Faculty, UW
2010-2016 Research Associate Professor, Laboratory Medicine, UW
2010+ Joint Associate Member, Biostatistics and VIDC, FHCRC
2013-2016 Adjunct Res. Associate Professor, Department of Biostatistics, UW
2016+ Research Professor, Laboratory Medicine, UW
2016+ Adjunct Research Professor, Department of Biostatistics, UW

Honors

1997 ASA Award for Outstanding Achievement, Western Michigan University
2001 Outstanding Student in Biostatistics, SPHCM, University of Washington

Professional Organizations

2001+ American Statistical Association
2001+ International Biometric Society (Western North American Region)
2011+ Member, International Respiratory and Severe Illness Center (UW)

Manuscript and abstract review

2008+ Reviewer for Statistics in Medicine
2009+ Reviewer for Journal of American Statistical Association

- 2009+ Reviewer for Biometrics
- 2009+ Reviewer for Journal of the Society for Clinical Trials
- 2010+ Reviewer for International Journal of STD & AIDS
- 2010+ Reviewer for Sexually Transmitted Infections
- 2010+ Reviewer for BioMed Central Infectious Diseases
- 2011 Abstract reviewer for International Society for Sexually Transmitted Diseases Research, Quebec, CA.
- 2011+ Reviewer for International Journal of Infectious Diseases
- 2012+ Reviewer for the Journal of Infectious Diseases
- 2012+ Reviewer for the Sexually Transmitted Diseases
- 2012+ Reviewer for the Diagnostic Microbiology and Infectious Disease

Grant and institutional review

- 2005-11 Institutional Review Board, Cancer Research and Biostatistics, Seattle WA
- 2006+ Grant reviewer for Pennsylvania State Department of Health
- 2009 Grant reviewer for Bill and Melinda Gates Foundation
- 2009 Data Safety Monitoring Board member, TCAD Oral for Treatment of Influenza A in Immunocompromised Patients, PI Michael Boeckh, UW
- 2017 Grant reviewer for National Institutes of Allergy and Infectious Disease, NIH, T-cell reagent research for the study of allergic diseases (U19)

Special National Responsibilities

- 1992-1994 United States Peace Corps volunteer, Gabon, West Africa
Taught math and science at the junior high level, in French

Special Local Responsibilities

Guest lecturer for Early Fall Start course 'CIS Seattle', August 2012. "Some forensic statistics, and other statistics at UW."

Guest lecturer for Epidemiology 590, October 2006, October 2008, November 2009, November 2010, October 2011, October 2012, October 2014, November 2015. "Biostatistical Issues in Vaccine Studies: candidate selection.

Member, Admissions Committee, Department of Biostatistics, 2013+.

Member, Grand Rounds Committee, Department of Lab Medicine, 2014+.

Member, Appointments and Promotions Committee, Department of Lab Medicine, 2016+.

Local Service

Guest speaker for Expand Your Horizons, a STEM event for girls at Edmonds Community College, March 2013. "It's fun to be a statistician: using math to prevent HIV."

Research Funding

P01 AI30731-23 (A. Wald) 7/1/2013-6/30/2018
NIH / NIAID: Role: Core Leader; Statistical Core

Clinical Epidemiology & Pathogenesis of Asymptomatic Genital Herpes (Core C)

This Core of the PO1 grant has four specific aims: 1) consult in the design of experimental methods, including sample size computation, and the conceptualization of viral dynamics studies, 2) coordinate data management, overseeing data collection procedures, laboratory sample management, results handling and integration of diverse data sources, 3) perform appropriate statistical analyses and modeling, contributing to the interpretation and reporting of results, 4) design novel dynamical mathematical models and other statistical methodologies as needed, optimizing our analytic approach.

RO1 CA 213130-01 (M. Madeleine) 2/22/2017-08/21/2017 .6 cal mos
FHCRC/NIH: Role: Co-investigator

Therapeutic use of HPV L1 vaccine in anogenital neoplasia: VIVA Trial

We will conduct a randomized, double-blind, placebo-controlled proof-of-concept clinical trial of quadrivalent HPV vaccine administered to women and men with high-grade intraepithelial vulvar or anal neoplasia, or Stage 1 vulvar or anal cancer.

RO1 AI111780-01 (J. Zhu) 3/5/2014-02/28/2019
NIH/NIAID

Mechanisms of Protective Local Immunity in Human Female Reproductive Tract

Using a combined approach of cell-type-specific laser capture microdissection (LCM), transcriptional profiling, high-throughput sequencing technology and multicolor confocal microscopy, aims are: 1) determine in situ the spatial dynamics and retention mechanism of memory T cells in human FRT mucosa, and 2) define microenvironment cues in promoting survival and local proliferation of resident T cells.

Seattle Children's Hospital Research Institute (H. Chu) 10/2015-10/2017

Mother Infant Pairs

Dr. Magaret serves as statistical support for Drs. Janet Englund and Helen Chu of the Seattle Children's Research Institute. She provides statistical analysis specifically involving analysis of the clinical and virologic data from the Bangladesh and Nepal cohorts of mother-infant pairs.

FHCRC (Marrazzo) 07/01/2014-06/30/2019

UW STI CRC: The Genital Microbiome as a Determinant of Sexual Health & Local Immunity

Our objective is to establish a Sexually Transmitted Infection (STI) Cooperative Research Center at the University of Washington (UW) to investigate interactions between the human genital microbiome and syndromes and pathogens that contribute to STI-related morbidity. We will apply our innovative approach of intensive sampling and robust characterization of the genital microbiome to cutting-edge investigation of the underlying biological mechanisms of key interactions between STI pathogens, bacterial communities, and syndromic presentations in two high-risk populations: reproductive-age women and men who have sex with men (MSM).

Past Research Funding

UW Center for AIDS and STD Research Fellowship

01/01/00 - 12/20/01

Grant 26469

(Celum, PI)

05/01/03 - 4/01/09

Bill & Melinda Gates Foundation: Role: Co-investigator, Statistical Manager

HSV-2 Suppression to Prevent HIV Transmission

To conduct a multi-site randomized trial in Africa and Asia to assess the efficacy of acyclovir treatment on the sexual transmission of HIV in HIV-serodiscordant couples.

Bibliography

Manuscripts in Peer-Reviewed Journals

1. Eschenbach D, Thwin SS, Patton D, Hooten T, Stapleton A, Agnew K, Winter K, **Meier A**, Stamm W. 2000. Influence of the normal menstrual cycle on vaginal tissue, discharge and microflora. *Clin Infect Dis*;30(6):901-7.
2. Eschenbach DA, Patton DL, **Meier AS**, Thwinn SS, Aura J, Stapleton A, Hooton TM. 2000. Effects of oral contraception pill use on vaginal flora and vaginal epithelium. *Contraception*; 62(3):107-12.
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4. Patton DL, Thwin SS, **Meier A**, Hooton TM, Stapleton AE, Eschenbach DA. 2000. Epithelial cell layer thickness and immune cell populations in the normal human vagina at different stages of the menstrual cycle. *Am J Obstet Gynecol*;183(4):967-73.
5. Eschenbach DA, Patton DL, Hooton TM, **Meier AS**, Stapleton A, Aura J, Agnew K. Effects of vaginal intercourse with and without a condom on vaginal flora and vaginal epithelium. 2001. *J Infect Dis*;183(6):913-8.
6. Van Kessel K, Reed S, Newton K, **Meier A**, Lentz G. 2001. The second stage of labor and stress urinary incontinence. *Am J Obstet Gynecol*;184(7):1571-5.
7. Mwachari C, Cohen CR, **Meier A**, Nganga L, Kimari J, Odhiambo J. 2001. Respiratory tract infection in HIV-1 infected adults in Nairobi, Kenya: evaluation of risk factors and the WHO treatment algorithm. *J Acquir Immune Defic Syndr*;27(4):365-71.
8. Penner JA, **Meier AS**, Mwachari C, Ayuka F, Muchina B, Odhiambo J, Cohen CR. 2003. Risk factors for pneumonia in urban-dwelling HIV-1 infected women: A case control study in Nairobi, Kenya. *J Acquir Immune Defic Syndr*;32(2):223-28.
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10. Criniti A, Mwachari CW, **Meier AS**, Nduba V, Sanguli L, Ngumo JK, Cohen CR. 2003. Association of hormonal contraception and HIV-seroprevalence in Nairobi, Kenya. *AIDS*;17(18):2667-9.

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12. Zerr DM, **Meier AS**, Selke SS, Frenkel LM, Huang ML, Wald A, Rhoads MP, Nguy L, Bornemann R, Morrow RA, Corey L. 2005 A population-based study of primary human herpesvirus 6 infection. *N Engl J Med*;352(8):768-76.
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14. Cohen CR, Koochesfahani KM, **Meier AS**, Shen C, Karunakaran K, Ondondo B, Kinyari T, Mugo NR, Nguti R, Brunham RC. 2005. Immunoepidemiologic profile of chlamydia trachomatis infection: importance of heat-shock protein 60 and interferon- gamma. *J Infect Dis*;192(4):591-9.
15. **Meier AS**, Gilbert PB. 2005. Accuracy and precision of estimating intervention efficacy when the timing of observed events differ by treatment arm. *Contemp Clin Trials*;26(5):598-610.
16. Morrow RA, Friedrich BS, **Meier AS**, Corey L. 2005. Use of *biokit* HSV-2 rapid assay to improve the positive predictive value of Focus HerpeSelect HSV-2 ELISA. *BMC Infectious Diseases*;5:84.
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simplex virus type 2 peptide-based vaccine designed to prime or boost CD8 T-cell responses in HSV-naïve or HSV-2-infected subjects. *Clinical and Vaccine Immunology*;15(5):773-82.

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short episodes of genital HSV-2 reactivation: three randomised, open-label, cross-over trials. *Lancet*;379(9816):641-7.

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33. Wald A, Warren T, Fife K, Tyring S, Lee P, Van Wagoner N, Bernstein D, Flechtner JB, **Magaret A**, Morris A, Hetherington S. Therapeutic HSV-2 vaccine (GEN003) results in durable reduction in genital lesions at 1 year. Infectious Diseases Society of America, Philadelphia, PA, 2014.
34. Wald A, Timmler B, **Magaret A**, Warren T, Tyring S, Fife K, Selke S, Huang ML, Stobernack HP, Corey L, Birkmann A, Ruebsamen-Schaeff H. Pritelivir is more effective for suppression of genital HSV-2 shedding than valacyclovir. Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington DC, 2014.
35. **Magaret A**, Jacob S. Design of a multi-arm randomized clinical trial with no control arm, a sepsis treatment study. Innovative Methods Program for Advancing Clinical Trials Symposium III, Raleigh NC, 2014.
36. Newman L, Njoroge A, Chohan B, **Magaret A**, Gorstein J, Overbaugh J, Wamalwa D, Obimbo E, Nduati R, Farquhar C. Sustained Responses to Measles Revaccination in HIV-Infected Children on ART in Kenya. Conference on Retroviruses and Opportunistic Infections, Seattle WA, 2015.
37. Bender Ignacio RA, Perti T, **Magaret A**, Stevens CE, Rajagopal S, Huang ML, Johnston CM, Selke S, Marrazzo JM, Wald A. Effect of oral and gel tenofovir on genital HSV shedding in immunocompetent women. Conference on Retroviruses and Opportunistic Infections, Seattle WA, 2015.
38. Looker KJ, **Magaret AS**, Turner KME, Vickerman P, Gottlieb SL and Newman L. Global and WHO regional estimates of herpes simplex virus type 2 (HSV-2) infections in 2012. British Association for Sexual Health and HIV, Glasgow, Scotland, 2015.
39. Chu HY, Katz J, Tielsch J, Khattry SK, LeClerq S, **Magaret A**, Kuypers J, Steinhoff M, and Englund JA. MDRSV Infection in Infants is Associated with Low Mortality in Rural Nepal. Infectious Diseases Society of America, Seattle, WA, 2015.
40. Agyemang EA, **Magaret AS**, Selke S, Johnston C, Corey L, Wald A. HSV Shedding: surrogate for disease severity and response to antivirals. Infectious Diseases Society of America, Seattle, WA, 2015.
41. Mugo N, Eckert L, Cheng A, **Magaret A**, Celum C, Saah A, Baeten J, Galloway D, Ngunjiri K, Wamalwa D, Wald A. Quadrivalent HPV vaccine in HIV-infected early adolescent girls and boys in Kenya: immunogenicity and correlation with immune status. International Papilloma Virus, Lisbon, Portugal, 2015.
42. Wald A, **Magaret A**, Warren T, Van Wagoner N, Kreisel J, Tyring S, Fife K, Seiden D, Smith L, Mammen M. Therapeutic DNA vaccine for genital herpes. Interscience Conference on Antimicrobial Agents and Chemotherapy, Boston, 2016.
43. Dabestani N, Dombrowski J, **Magaret A**, Katz D, Wald A, Johnston C. Time Trends in First Episode Genital HSV in an Urban STD Clinic. National STD Prevention Conference, Atlanta GA, 2016.
44. Agyemang EA, Warren T, Selke S, **Magaret A**, Johnston C, Wald A. Performance of Commercial Enzyme-Linked Immunosorbent Assays (ELISAs) for Diagnosis of HSV-1 and HSV-2 Infection in a Clinical Setting. National STD Prevention Conference, Atlanta GA, 2016.
45. Hill JA, Hall-Sedlak R, **Magaret A**, Mikhaylova A, Huang ML, Jerome KR, Zerr DM, Boeckh M. Large-Scale Identification and Characterization of Hematopoietic Cell Transplant Recipients and their Donors with Inherited Chromosomally Integrated HHV-6. IDWeek, New Orleans LA, 2016.
46. Hill JA, Hall-Sedlak R, **Magaret A**, Mikhaylova A, Huang ML, Jerome KR, Zerr DM, Boeckh M. Outcomes after allogeneic hematopoietic cell transplantation with donors or recipients harboring inherited chromosomally integrated HHV-6. BMT Tandem, Orlando, FL, 2017.
47. Micks E, Son H, **Magaret A**, Selke S, Johnston C, Wald A. The effects of follicular versus luteal phase menstrual cycle timing on genital herpes simplex virus-2 shedding and lesions. International Society for Sexually Transmitted Diseases Research, Rio, Brazil, 2017.
48. Johnston C, **Magaret A**, Yuhas K, Srinivasan S, Proll S, Hughes UP, Kohler CM, Varon D, Pholsena N, Marrazzo JM, Fredricks DN, Wald A. Association between genital herpes simplex virus type-2 shedding and presence and quantity of bacterial vaginosis-associated bacteria. International Society for Sexually Transmitted Diseases Research, Rio, Brazil, 2017.
49. Johnston C, Son H, **Magaret A**, Stern M, Huang ML, Selke S, Jerome KR, Koelle DM, Wald A.

- Decline in genital shedding in the year after first clinical episode genital herpes simplex virus type 1. International Society for Sexually Transmitted Diseases Research, Rio, Brazil, 2017.
50. Micks E, Son H, **Magaret A**, Selke S, Johnston C, Wald A. The effect of hormonal contraception and menstrual cycle timing on genital herpes simplex virus-2 shedding and lesions. Infectious Diseases Society for Obstetrics and Gynecology, Park City, Utah, 2017.
 51. Azenkot T, Zaniello B, Green ML, Selke S, Huang ML, **Magaret A**, Wald A, Johnston C. Frequent cytomegalovirus shedding in breastmilk in healthy women persists up to 17 weeks post-partum. Infectious Diseases Society for Obstetrics and Gynecology, Park City, Utah, 2017.
 52. Parker M, Han Z, Abu-Haydar E, Matsiko E, Iyakaremye D, Tuyisenge L, **Magaret A**, Lyambabaje A. Evaluation of hemoglobin measurement tools for child anemia screening in Rwanda. International Union of Nutritional Sciences, Buenos Aires, Argentina, 2017.
 53. Boonyaratanakornkit J, Englund J, **Magaret A**, Bu Y, Tielsch J, Shrestha L, Khatry SK, LeClerq S, Kuypers J, Katz J, Steinhoff M, Chu H. Clinical presentation, risk factors, and cross-protection from repeated respiratory viral infections in infants in Nepal. ID Week, San Diego, CA, 2017.
 54. Johnston C, Son H, **Magaret A**, Stern M, Gunby S, Ott M, Huang ML, Selke S, Jerome KR, Wald A, Koelle M. Mucosal Shedding and Cellular Immune Response After First Episode Genital Herpes Simplex Virus Type 1 Infection. ID Week, San Diego, CA, 2017.
 55. Mazur NI, Horsely N, Bont LJ, Graham BS, de Haan CAM, Jacobino SR, Khatry SK, Kumar A, LeClerq S, Leusen J, Magaret A, Nederend M, Steinhoff MC, Tielsch JM, Katz J, Englund, JA, Chu HY. The role of breast milk respiratory syncytial virus prefusion F-protein IgA antibodies against RSV acute-respiratory illness in infants. RSV vaccines for the World, Malaga, Spain, 2017.

Invited* lectures and oral presentations

1. **Meier AS**, Richardson, BA. Discrete proportional hazards model for uncertain outcomes. Presented at the Western North American Region Biometric Society Meeting, Burnaby, British Columbia. June 2001.
2. **Meier AS**. Incorporating outcome validation subsets and discrete proportional hazards models. Presented at the Eastern North American Region Biometric Society Meeting, Tampa, FL. March 2003.
3. ***Meier AS**. Issues in the timing of data collection for estimating treatment effects in randomized clinical trials. Seminar, Department of Biostatistics, UW, Seattle. May 2004.
4. ***Meier AS**. HSV Research and issues in shedding observation intervals. Seminar, Department of Biostatistics, UW, Seattle. October 2004.
5. ***Meier AS**. Three myths about statistics or how to alienate great blue herons. Program in Infectious Diseases / Division of Virology Annual Meeting, FHCRC / UW, Seattle. December 2004.
6. ***Meier AS**. Accuracy of HSV DNA detection by PCR. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. February 2005.
7. ***Meier AS**. Statistical sampler: the low-fat smorgasbord approach to equations. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. July 2005.
8. ***Meier AS**. Enrollment characteristics. Partners in Prevention Study Annual Investigator's Meeting. Cape Town, South Africa. January 2006.
9. ***Magaret AS**. Empirical versus parametric validation of discrete proportional hazards models. Program in Biostatistics seminar, Hutchinson Cancer Center, Seattle. September 2006.
10. ***Magaret AS**. Analysis of primary outcome and relevant data considerations. Partners in Prevention Study Annual Investigator's Meeting. Arusha, Tanzania. March 2007.
11. ***Magaret AS**. Evidence of host genetic differences in HSV disease severity. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. April 2007.

12. **Magaret AS**, Krantz E, Huang ML, Selke S, Corey L, Wald A. Risk of subject-level misclassification in studies of herpes simplex virus and the usefulness of the term "shedder". International Society for Sexually Transmitted Diseases Research, Seattle WA. July 2007.
13. **Magaret AS**. Is "shedder" a useful label in virus research? Crafting a message regarding the dichotomization of rates into "none" versus "some". SCHARP Statistical Sciences Brown Bag, FHCRC. March 2008.
14. ***Magaret AS**. Beyond ROC Curves: Recent Statistical Advances in the Evaluation of Diagnostic and Prognostic Tests. Grand Rounds, Department of Laboratory Medicine, UW. March 2008.
15. ***Magaret AS**. "How many 'shedders' does it take to show my intervention works?" OR Absurdly-phrased study design issues in HSV. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. April 2009.
16. **Magaret AS**, Stanaway J. Sample size for repeated-measures autocorrelated binomial distribution. Western North American Region of the International Biometric Society, Portland OR. June 2009.
17. **Magaret AS**. Accurate sample size for HSV2 shedding studies and PIP ancillary study: higher incidence of death in the HIV-infected partner. Program in Infectious Diseases / Division of Virology Research Conference, FHCRC / UW, Seattle. June 2010.
18. **Magaret AS**. Misspecification of parameters in repeated-measures autocorrelated beta-binomial distribution: application to design of viral shedding studies. Western North American Region of the International Biometric Society, Seattle. June 2010.
19. ***Magaret AS**. Per-act infectivity of HSV-2, Vaccine and Infectious Diseases Division, FHCRC, Seattle. January 2012.
20. ***Magaret AS**. Accurate estimation of the efficacy of condoms in preventing HSV acquisition, Research Conference, Department of Laboratory Medicine, Seattle. February 2012.
21. ***Magaret AS**. Statistical methodology for assessment of viral shedding and associated study design considerations. Biostatistics faculty seminar, FHCRC, Seattle. October 2012.
22. ***Magaret AS**. Statistical methodology for assessment of viral shedding and associated study design considerations. Department of Biostatistics seminar, UW, Seattle. October 2012.
23. ***Magaret AS**. Using validation subsets to alleviate bias in proportional hazards models when outcomes are mismeasured. Clinical trials affinity group seminar, FHCRC, Seattle. October 2012.
24. **Magaret AS**. A Bayesian randomized clinical trial for treatment of sepsis. Clinical trials affinity group seminar, FHCRC, Seattle. November, 2013.
25. **Magaret AS**. Multi-arm trials using adaptive design: increased efficiency without induced bias. Grand Rounds, Department of Laboratory Medicine, UW. March 2014.

26. **Magaret AS**. Love is an Open Sore: But HSV shedding may be a better outcome than lesions for evaluating herpes treatments. Vaccine and Infectious Diseases Division Seminar, FHCRC, Seattle. October 2015.
27. **Magaret AS**. Detecting viral superinfection with limited samples, or how Dempster, Laird, & Rubin can slash your sequencing costs. Vaccine and Infectious Diseases Division Seminar, FHCRC, Seattle. September 2017.

Teaching Responsibilities

Winter 2015 Instructor, Biost 310, Biostatistics for the Health Science, 3 credits

Thesis and Dissertation Committee Memberships

2003	Member, MPH Thesis Committee.	Christina Mwachari, Epidemiology, UW
2005	Member, MPH Thesis Committee.	Hyang Nina Kim, Epidemiology, UW
2005	Member, MPH Thesis Committee.	Karen E. Mark, Epidemiology, UW
2005	Member, MPH Thesis Committee.	Emily J. Toth, Epidemiology, UW
2007	Member, MPH Thesis Committee.	Cedric Spak, Epidemiology, UW
2007	Member, MPH Thesis Committee.	Christine Johnston, Epidemiology, UW
2008	Member, Dissertation Committee.	Karen E. Mark, Epidemiology, UW
2008	Member, Dissertation Committee.	Emily J. Martin, Epidemiology, UW
2008	Member, MPH Thesis Committee.	Kirsten Hauge, Epidemiology, UW
2009	Member, Dissertation Committee.	Chunhui Wang, Epidemiology, UW
2010	Member, MPH Thesis Committee.	Warren Phipps, Epidemiology, UW
2011	Member, MPH Thesis Committee.	Nicholas Moss, Epidemiology, UW
2013	Member, MPH Thesis Committee.	Tara Perti, Epidemiology, UW
2013	GSR, Dissertation Committee.	Laura Newman, Epidemiology, UW
2013	Member, MPH Thesis Committee.	Nicole Boyle, Epidemiology, UW
2014	Member, MPH Thesis Committee.	Benjamin Zaniello, Epidemiology, UW
2015	Member, MPH Thesis Committee.	Elfriede Agyemang, Epidemiology, UW
2015	Member, MPH Thesis Committee.	Jessica Yager, Epidemiology, UW
2016	Member, MPH Thesis Committee.	Jenny Lenahan, Epidemiology, UW
2016	Member, MS Thesis Committee.	Cecilia Lee, Epidemiology, UW
2016	Member, MPH Thesis Committee.	Nazila Dabestani, Global health, UW.
2017	Member, MPH Thesis Committee.	Yuan Zhou, Epidemiology, UW.

Research advising

2010	Mentor, research assistantship.	Jeffrey Stanaway, Epidemiology, UW
2011	Mentor, research internship.	Arathi Nair, Gonzaga University.
2013	Mentor, research assistantship,	Fedelis Mutiso, Biostatistics, UW
2014	Mentor, research assistantship,	Anqi Cheng, Biostatistics, UW
2015	Mentor, independent study,	Adam Brand, Biostatistics, UW
2015	Mentor, research assistantship,	Anya Mikhaylova, Biostatistics, UW
2016	Mentor, research assistantship,	Jiaqi Yin, Biostatistics, UW
2016	Mentor, research assistantship,	Hyunju Son, Biostatistics, UW