

JULIANNE MEISNER

CONTACT

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INSTITUTIONAL ADDRESS: Department of Epidemiology, Box 357234
School of Public Health
University of Washington
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PROFESSIONAL QUALIFICATIONS AND MEMBERSHIPS

Licensed veterinarian *Washington*
Member *Society for Epidemiologic Research*
 American Public Health Association
 Veterinary Information Network
 Student Causal Inference Working Group

EDUCATION

PhD *Epidemiology, University of Washington*
 2017-2021 (expected)

MS *Epidemiology, University of Washington*
 2015-2017

BVM&S *DVM equivalent, University of Edinburgh Royal (Dick) School of Veterinary Studies*
 2011

PROFESSIONAL POSITIONS

October 2019- Present *Adjunct Assistant Professor, College of Veterinary Medicine*
 Seattle, WA | Washington State University

June 2018- Present *Postdoctoral Scholar- Fellow, Department of Environmental and Occupational Health Sciences*
 Seattle, WA | University of Washington

March 2015- Present *Sole Proprietor, Veterinarian | Julianne Meisner- Relief Veterinarian*
 Seattle, WA | Small animal predominant

September 2012- March 2015 *Associate Veterinarian | La Costa Animal Hospital*
 Carlsbad, CA | Small animal exclusive

August 2011- August 2012 *Associate Veterinarian | Roosevelt Veterinary Center*
 Brewster, NY | Small animal predominant

RESEARCH/FIELD EXPERIENCE

April 2020 - Present **Postdoctoral Fellow | UW Metacenter for Pandemic Preparedness
Department of Global Health, University of Washington**

I am currently working as member of the University of Washington's COVID-19 Literature Report team, which provides daily literature digests of public health and policy relevance to the Washington Department of Health, the Office of the Governor, and other local and regional stakeholders.

March 2020 - Present **Co-Investigator | COVID-19 and Pets Study (CAPS)
Center for One Health Research, University of Washington**

The CAPS study samples pets in COVID-19 positive households in King County, Washington, for SARS-CoV-2. In this study I have contributed to study design and animal sampling, and once data collection is completed I will lead the subsequent analyses (PI: Peter Rabinowitz).

June 2018 - Present **Postdoctoral Scholar- Fellow | Biostatistics, Epidemiologic, and Bioinformatic Training in
Environmental Health, University of Washington**

My research uses already-collected data to perform a spatially-explicit analysis of the association between cattle and pig density and human African trypanosomiasis (HAT) occurrence, and the degree to which this association is mediated by environmental change. The final aim of this research adapts an existing mathematical model to evaluate the likelihood of HAT occurrence under varying control strategies.

July 2017 - December 2017 **Graduate Research Student Assistant | Global WACH
Department of Global Health, University of Washington**

I constructed a decision analytic tool to model the cost effectiveness of repeat maternal testing for HIV, for a WHO consultancy.

August 2016 - July 2016 **Masters Practicum | Neglected Zoonotic Diseases in Uganda study
Veterinarians Without Borders/Vétérinaires San Frontières
Moyo, Uganda**

I performed animal sampling alongside of the human sampling team, and created and administered an Animal Worker Health Survey to describe household delegation of livestock tasks and relevant occupational hazards, specifically animal injury.

September 2015 - August 2015 **Group Leader | Syndromic Surveillance for Livestock Health (SSLH)
Veterinarians Without Borders/Vétérinaires San Frontières
Kampala, Uganda**

I lead a team of four American veterinarians through seven districts in central and southwestern Uganda, in each district executing training sessions of livestock producers and community animal health workers in the identification and reporting of key animal diseases.

May 2011 **Research Extern | Plum Island Animal Disease Center
Foreign Animal Disease Research Unit
Orient Point, NY**

I assisted in ongoing projects related to foot and mouth disease pathogenesis and vaccine development, including the assessment of porcine vaccine trial control groups.

August 2010 - July 2010 **Research Extern | Integrated Control of Neglected Zoonoses (ICONZ)
Kampala, Uganda**

I assisted in field sampling of cattle herds previously mass-treated with trypanocides and carried out a baseline ICONZ study quantifying mastitis prevalence in rural and peri-urban dairy herds, comprising both local and exotic breeds.

[\(http://iconzafrica.com/\)](http://iconzafrica.com/)

July 2009 - June 2009 **Research Extern | Stamp Out Sleeping Sickness/Makerere University
Kampala, Uganda**

I primarily worked in remote villages in eastern Uganda, mass treating cattle for trypanosomiasis ('nagana') and distributing trypanocidal drugs (diminazene diaceturate; VeribenTM, Ceva Santé Animal) to cattle keepers. I also worked within the Faculty of Veterinary Medicine at Makerere University, treating local bovine cases of nagana.

[\(http://www.stampoutsleepingsickness.com/\)](http://www.stampoutsleepingsickness.com/)

PUBLICATIONS

1. **Meisner J**, Curtis K, Graham T, Rabinowitz P. Occupational practices and hazards of rural livestock keepers in Uganda: a Cross-Sectional Study. *East African Health Research Journal* 2017; **2**(1).
2. **Meisner J**, Vora M, Fuller M, Phipps A, Rabinowitz P. Maternal Veterinary Occupation and Adverse Birth Outcomes in Washington State, 1992-2014: a Population-Based Retrospective Cohort Study. *Occupational and Environmental Medicine* 2018; **75**: 359-368
3. **Meisner J**, Curtis, K, Graham T, Apamaku M, Manhart L, Rabinowitz, P. Cattle-associated risk factors for human tuberculosis in rural livestock keeping communities, Uganda. *Zoonoses and Public Health* 2018; **66**(1): 73-82.
4. **Meisner J**, Barnabas R, Rabinowitz P. A mathematical model for evaluating the role of trypanocide treatment of cattle in the epidemiology and control of *Trypanosoma brucei rhodesiense* and *Trypanosoma brucei gambiense* sleeping sickness in Uganda. *Parasite Epidemiology and Control* 2019; **5**: e00106.
5. **Meisner J**, Mooney, S, Rabinowitz P. The curse of dimensionality: animal-related risk factors for pediatric diarrhea in western Kenya, and methods for dealing with a large number of predictors. *PLoS ONE* 2019; **14**(4): e0215982.
6. **Meisner J**, Clifford W, Wohrle R, Kangiser D, Rabinowitz P. Soil and climactic predictors of canine coccidioidomycosis seroprevalence in Washington State: an ecological cross-sectional study. *Transboundary and Emerging Diseases* 2019; **66**(5): 2134-2142.
7. **Meisner J**, Roberts DA, Rodriguez P, Sharma M, Owiredo MN, Gomez B, de Mello MB, Bobrik A, Vodiany A, Storey A, Githuka G, Chidarikire T, Barnabas R, Farid S, Essajee S, Jamil MS, Baggaley R, Johnson C, Drake A. Optimizing HIV retesting during pregnancy and postpartum in four countries: a cost-effectiveness analysis. *Lancet HIV* [In Review].
8. Rodriguez PJ, Roberts, DA, **Meisner, J**, Sharma, M, Owiredo MN, Gomez B, de Mello M, Bobrik A, Vodiany A, Storey A, Githuka G, Chidarikire T, Barnabas R, Barr-Dichiara M, Jamil MS, Baggaley R, Johnson C, Taylor MM, Drake A. Cost-effectiveness of dual maternal HIV and syphilis testing strategies in high and low HIV prevalence countries. *Lancet Global Health* [In Review].

POLICY GUIDANCE

December 2019

WHO 2019 Guidelines | Prevention of mother-to-child HIV retesting

Updated guidelines for maternal retesting in pregnancy were based on a cost-effectiveness I conducted as a graduate research student assistant in the Department of Global Health.

TA/TEACHING EXPERIENCE

Summer 2018,
Autumn 2019

Facilitator | Research Methods

School of Medicine, University of Washington

Spring 2018

Teaching Assistant | Outbreak Investigation and Response (EPI 201)

Department of Epidemiology, University of Washington

Winter 2018

Teaching Assistant | Epidemiologic Methods II (EPI 513)

Department of Epidemiology, University of Washington

Teaching Assistant | Introduction to Epidemiology (EPI 320)

Department of Epidemiology, University of Washington

Fall 2017

Teaching Assistant | Epidemiologic Methods I (EPI 512)

Department of Epidemiology, University of Washington

Teaching Assistant | Advanced Epidemiologic Methods I (EPI 515)

Department of Epidemiology, University of Washington

Spring 2017

Teaching Assistant | Introduction to One Health (ENVH 439/539)

Department of Environmental and Occupational Health Sciences, University of Washington

Winter 2017

Tutor | Medical Biometry II (BIOSTAT 512)

Department of Biostatistics, University of Washington

Fall 2016, 2018

Tutor | Epidemiologic Methods I (EPI 512)

Department of Epidemiology, University of Washington

OTHER TRAINING

June 2018

Harvard Program on Causal Inference

Harvard T.H. Chan School of Public Health

Short course

July 2018

Summer Institutes: Statistics and Modeling in Infectious Diseases

Department of Biostatistics, University of Washington

Simulation-based Inference for Epidemiological Dynamics

MCMC for Infectious Diseases, modules I and II

July 2017

Summer Institutes: Statistics and Modeling in Infectious Diseases

Department of Biostatistics, University of Washington

Stochastic Epidemiologic Models with Inference

Spatial Statistics in Epidemiology and Public Health

PRESENTATIONS

June 2019

Finding the scientific question in the exposure haystack: re-analysis of a matched case-control study of animal-related risk factors for pediatric diarrhea in Kenya

Society for Epidemiologic Research Annual Meeting [Oral]

Minneapolis, MN

March 2018, 2019

Zoonotic diseases and One Health

Guest lecturer, Infectious Disease Epidemiology (EPI 520)

University of Washington, Seattle, WA

November 2017, 2018, 2019

One Health: integrating human, animal and environmental health in the global health context.

Guest lecturer, Core Topics in Global Health (GH 501/401)

University of Washington, Seattle, WA

September 2018

Soil and climactic predictors of canine coccidioidomycosis seroprevalence in Washington

Washington State Zoonotic Disease Conference [Oral]

Ellensburg, WA

July 2018

Modeling the cost-effectiveness of repeat maternal HIV testing in Kenya and South Africa

AIDS 2018 [Poster]

Amsterdam, Netherlands

- June 2018** ***One Health and epidemiologic methods: in the same neighborhood?***
Society for Epidemiologic Research Annual Meeting [Poster]
Baltimore, MD
- June 2018** ***Causal inference and One Health interventions: the need for epidemiologic methods.***
5th International One Health Congress [Poster]
Saskatchewan, Canada
- December 2017** ***A Markov model of the cost effectiveness of repeat maternal HIV testing: Kenya and South Africa***
World Health Organization [Written Report]
Geneva, Switzerland
- November 2017** ***Cattle-associated risk factors for human tuberculosis in rural livestock keeping communities, Uganda.***
American Society of Tropical Medicine and Hygiene Annual Meeting [Poster]
Baltimore, MD
- April 2017** ***Animal injury, zoonotic disease, and other occupational hazards of rural livestock keepers in Uganda***
Consortium of Universities for Global Health [Poster]
Washington, DC
- February 2017** ***Animal injury, zoonotic disease, and other occupational hazards of rural livestock keepers in Uganda***
Invited presenter, Department of Global Health “Cheers to 10 years” Celebration [Poster]
Seattle, WA
- January 2017** ***Animal injury, zoonotic disease, and other occupational hazards of rural livestock keepers in Uganda***
Semiahmoo Symposium on Environmental, Occupational, and Public Health [Poster]
Semiahmoo, WA

AWARDS

Department of Epidemiology Travel Award 2017, 2018, 2019
Graduate Student Fund for Excellence in Innovation Travel Award 2017
Occupational Health at the Human-Animal Interface Scholar 2015-2017
Best Poster, Semiahmoo Symposium on Environmental, Occupational, and Public Health 2017
Stergachis Endowed Fellowship for International Exchange 2016
RCVS EMS Vacation Research Scholarship 2010
Edinburgh University Small Projects Grant 2009

COMMUNITY SERVICE

American Public Health Association
Student Liaison, Veterinary Public Health Select Primary Interest Group, 2018-2019
Section Councillor, Veterinary Public Health Select Primary Interest Group, 2019-2020

Society for Epidemiologic Research
Social Media Contributor, 2018-2019

Western Regional International Health Conference Planning Committee
Lead Organizer, One Health and Changing Ecosystems sub-theme, 2015-2016

Epidemiology Department Student Representative
Social Chair, 2015-2016

REFERENCES

Peter Rabinowitz, MD MPH

Associate Professor, Departments of Environmental and Occupational Health Sciences, Family Medicine, and Global Health

School of Public Health
University of Washington
Seattle, WA
peterr7@uw.edu

Jonathan Wakefield, PhD

Professor, Departments of Statistics and Biostatistics

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University of Washington
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Ruanne Barnabas, MBChB DPhil

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Allison Glassman, DVM

Veterinarian, Owner

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Brewster, NY
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