

# CURRICULUM VITAE

Julianne Meisner

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## Biographical Information

Department of Environmental and Occupational Health Sciences

School of Public Health

University of Washington

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## Education

- University of Washington, Seattle, WA, USA, PhD (Epidemiology), 2021
- University of Washington, Seattle, WA, USA, MS (Epidemiology), 2017
- University of Edinburgh, Edinburgh, UK, BVM&S (DVM equivalent), 2011

## Professional licenses

*Veterinary license*

Washington

VT60554732

## Positions

*Clinical Assistant Professor*

Department of Environmental and Occupational Health Sciences

University of Washington

July 2021-Present

*Veterinary Public Health Fellow*

International Livestock Research Institute

Nairobi, Kenya (remote)

August 2021-Present

*Adjunct Clinical Professor*

College of Veterinary Medicine

Washington State University

October 2019-Present

*Postdoctoral Scholar – Fellow*

Biostatistics, Epidemiologic, and Bioinformatic Training in Environmental Health

Department of Environmental and Occupational Health Sciences

University of Washington

July 2018-July 2021

*Locum Tenens relief veterinarian*

San Diego, CA and Seattle, WA

March 2015-September 2019

*Associate Veterinarian*

La Costa Animal Hospital

Carlsbad, CA  
September 2012-March 2015

*Associate Veterinarian*  
Roosevelt Veterinary Clinic  
Brewster, NY  
August 2011-September 2012

## Professional Memberships

Society for Epidemiologic Research  
American Public Health Association

## 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. Rodriguez PJ, Roberts DA, **Meisner J**, Sharma M, Owiredu MN, Gomez B, de Mello M, Bobrik A, Vodianyik 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* 2021; **9**(1): E61-E71.
8. **Meisner J**, Roberts DA, Rodriguez P, Sharma M, Owiredu MN, Gomez B, de Mello MB, Bobrik A, Vodianyik 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. *JIAS* 2021; **24**(4): e25686.
9. **Meisner J**, Munayco C, Garcia P, Carcamo C, Morin C, Pigott DM, Rabinowitz PM. A novel approach to modeling epidemic vulnerability, applied to *Aedes aegypti*-vectored diseases in Peru. *BMC Infectious Diseases* 2021; **21**(1):846.
10. Dostal T, **Meisner J**, Munayco C, Garcia P, Carcamo C, Perez Lu JE, Morin C, Frisbie LA, Rabinowitz PM. The effect of weather and climate on dengue outbreak risk in Peru, 2000-2018: a time-series analysis. *PLoS NTD* [In Review].
11. **Meisner J**, Kato A, Lemerani M, Miaka EM, Taban AI, Wakefield J, Rowhani-Rahbar A, Pigott D, Mayer JD, Rabinowitz PM. Estimating the distribution of livestock in space and time: a time-series contribution to livestock density mapping. *Nature Scientific Reports* [Submitted].
12. **Meisner J**, Kato A, Lemerani M, Miaka EM, Taban AI, Wakefield J, Rowhani-Rahbar A, Pigott D, Mayer JD, Rabinowitz PM. The effect of livestock density on *Trypanosoma brucei gambiense* and *T.b. rhodesiense*: a causal-inference based approach. *PLOS NTD* [Submitted]. Available from: <https://www.medrxiv.org/content/10.1101/2022.01.13.22268995v1>.
13. **Meisner J**, Kato A, Lemerani M, Miaka EM, Taban AI, Wakefield J, Rowhani-Rahbar A, Pigott D, Mayer JD, Rabinowitz PM. Livestock, pathogens, vectors, and their environment: a causal inference-based approach to

estimating the pathway-specific effect of livestock on human African trypanosomiasis risk. PLOS NTD [Submitted]. Available from: <https://www.medrxiv.org/content/10.1101/2022.01.13.22268994v1>.

14. **Meisner J**, Kato A, Lemerani M, Miaka EM, Taban AI, Wakefield J, Rowhani-Rahbar A, Pigott D, Mayer JD, Lorton C, Rabinowitz PM. Does a One Health approach to human African trypanosomiasis control hasten elimination? A stochastic compartmental modeling approach. *Parasites & Vectors* [Submitted]. Available from: <https://doi.org/10.21203/rs.3.rs-1239807/v1>
15. **Meisner J**, Baszler TV, Kuehl KE, Ramirez V, Baines A, Frisbie LA, Lofgren ET, DeAvila DM, Wolking RM, Bradway DS, Wilson H, Lipton B, Kawakami V, Rabinowitz PM. Household transmission of SARS-CoV-2 from humans to pets in Washington and Idaho: burden and risk factors. *Emerging Infectious Diseases* [Submitted].

## Policy Guidance and Reports

Prevention of mother-to-child HIV transmission, WHO 2019 Guidelines  
Subnational under-five mortality estimates, 1990-2019, UN IGME

## Service

Department of Environmental and Occupational Health Sciences  
*Equity, Diversity, and Inclusion Committee member, 2021*  
*Curriculum & Academic Policy Committee member, 2021*

American Public Health Association

*Student Liaison, Veterinary Public Health Select Primary Interest Group, 2018-2019*  
*Section Councilor, Veterinary Public Health Select Primary Interest Group, 2019-2022*

Society for Epidemiologic Research  
*Social Media Contributor, 2018-2019*

## Awards and Honors

American Society for Tropical Medicine and Hygiene Annual Meeting Travel Award, 2020/2021  
Department of Epidemiology Travel Award 2017, 2018, 2019, 2020  
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

## Grant Funding History

### Funded projects

Title: Discovery & Exploration of Emerging Pathogens - Viral Zoonoses (DEEP VZN)

PI: Felix Lankester

Funding Agency: USAID

Role: Co-Investigator

Dates: 10/2021-10/2026

Title: University of Washington Arboviral Research Network (UWARN)

PI: Wes Van Voorhis

Funding Agency: NIH/NIAID

Role: Co-Investigator

Dates: 05/2020-04/2025

Title: COVID-19 and Pets Study (CAPS)

PI: Peter Rabinowitz

Funding Agency: Wild Lives Foundation  
Role: Co-Investigator  
Dates: 07/2021-03/2022

Title: PNASH The Health Dairy Worker Study  
PI: Michael Yost  
Funding Agency: CDC/NIOSH  
Role: Co-Investigator  
Dates: 09/2016-09/2025

Title: Securing Global Public Health Through Strengthening Information Systems and Reporting in Kenya  
PI: Peter Rabinowitz  
Funding Agency: CDC  
Role: Co-Investigator  
Dates: 09/2015- 06/2022

Title: COVID and Migrant Farmworkers  
PI: Peter Rabinowitz  
Funding Agency: Quest Foundation  
Role: Co-Investigator  
Dates: 03/2021-04/2022

#### Pending applications

Title: US-Israel Collab: A multi-disciplinary model for Brucella transmission among Bedouin in the Negev  
PIs: Julianne Meisner, Peter Rabinowitz  
Funding Agency: National Science Foundation  
Role: Co-PI  
Dates: 09/2022-08/2027

Title: A multi-disciplinary explanatory model for Brucella transmission along complex networks in Mongolia  
PIs: Julianne Meisner, Briana Abrahms, Peter Rabinowitz  
Funding Agency: National Science Foundation  
Role: Co-PI  
Dates: 09/2022-08/2027

## **Conferences and Symposiums**

World One Health Conference 2020  
Planned Edinburgh, Scotland (virtual)  
Title: *Livestock and the Epidemiology of Sleeping Sickness: mechanisms and implications* [oral]

American Society of Tropical Medicine and Hygiene 2020  
Planned Toronto, Canada (virtual)  
Title: *Livestock and the Epidemiology of Sleeping Sickness: mechanisms and implications* [oral]

Society for Epidemiologic Research Annual Meeting 2019  
Minneapolis, MN, USA  
Title: *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* [oral]

Washington State Zoonotic Disease Conference 2018  
Ellensburg, WA, USA

Title: *Soil and climactic predictors of canine coccidioidomycosis seroprevalence in Washington* [oral]

Western Regional International Health Conference 2016

Seattle, WA, USA

Title: *One Health and Changing Ecosystems* [chair]

## **Teaching History**

### University of Washington

#### *Instructor*

- Determinants of Health (PHI 514), School of Public Health, Winter 2022
- Introduction to One Health (ENVH 439/439), Department of Environmental and Occupational Health Sciences, Spring 2022

#### *Teaching assistant*

- Outbreak Investigation and Response (EPI 201), Department of Epidemiology, Spring 2019
- Epidemiologic Methods II (EPI 513), Department of Epidemiology, Winter 2018
- Introduction to Epidemiology (EPI 320), Department of Epidemiology, Winter 2018
- Epidemiologic Methods I (EPI 512), Department of Epidemiology, Autumn 2017
- Advanced Epidemiologic Methods I (EPI 515), Department of Epidemiology, Autumn 2017
- Introduction to One Health (ENVH 439/539), Department of Environmental and Occupational Health Sciences, Spring 2017

#### *Course facilitator*

- Research Methods, School of Medicine, Summer 2018, Autumn 2019

#### *Guest lecturer*

- Infectious Disease Epidemiology (EPI 520), Department of Epidemiology, March 2018, 2019, 2020; Title: Zoonotic diseases and One Health
- Core Topics in Global Health (GH 501/401), Department of Global Health, November 2017, 2018, 2019, 2020; Title: One Health: integrating human, animal, and environmental health in the global health context
- Outbreak Investigation and Response (EPI 201), University of Washington, May 2018, 2020; Title: One Health and Outbreak Epidemiology

### International Livestock Research Institute

#### *Short Course*

- Data Management for Reproducible Research, November 2021- January 2022

## **Advising and Formal Mentoring**

### Committee member

Katy Burr, MPH in One Health

2021-present

Erin Tabor, MPH in One Health

2021-present

### Advisor

Tia Dostal, MPH in One Health

2019-2021

Teresa Schlanser, MPH in One Health

2019-2020

Leah Willess, MPH in One Health

2021-Present