

Laura M. Houghtaling

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EDUCATION

University of Minnesota, School of Public Health, Minneapolis, Minnesota

Doctor of Philosophy – Social and Behavioral Epidemiology

Expected Dec 2023

- GPA: 4.0
- Relevant Coursework: Advanced Epi Methods: Concepts; Biostatistical Inference; Advanced Epi Methods: Applications; Writing Research Grants; Synthesis and Application of Methods in Epidemiological Research; Advanced Topics in Research Methods (SOC 8890)

University of Minnesota, School of Public Health, Minneapolis, Minnesota

Master of Public Health – Epidemiology

May 2015

- GPA: 4.0
- Relevant Coursework: Epidemiologic Methods I & II; Epidemiologic Methods III & SAS Lab; Biostatistics I & II; Data Processing with PC-SAS; Decision Analysis for Healthcare; Ethics: Research and Policy; Clinical Trials

Colgate University, Hamilton, New York

Bachelor of Arts – German Language and Literature (Magna cum laude)

May 2005

- Minor: Biology (emphasis in Conservation Biology and Ecology) and Asian Studies

RELEVANT EXPERIENCE

University of Minnesota School of Public Health, Minneapolis, MN

September 2021 - Present

T32 Population Health Trainee (Minnesota Population Center)

Arundel Metrics, Inc., St. Paul, MN

June 2017 - September 2021

Senior Epidemiologist and Data Analyst

- Lead quantitative research projects for clients in public health and healthcare
- Provides data analysis and interpretation for media messaging to public and to key stakeholders
- Manage complex coding and data management processes
- Supervise and mentor interns from the University of MN School of Public Health
- Expertise in Stata, MS Excel, Access and SQL Server Management Studio
- Proficiency in Tableau, ArcGIS, Python and R Studio

University of Minnesota School of Public Health, Minneapolis, MN

August 2018 - August 2020

Graduate Research Assistant (Division of Epidemiology)

- Fielding a primary data collection effort with military veterans on health and education

University of Minnesota School of Public Health, Minneapolis, MN

January 2020 - May 2020

Graduate Teaching Assistant (Division of Epidemiology)

- Social Epidemiology
- Recognized as outstanding faculty/instructors by student evaluations

University of Minnesota School of Public Health, Minneapolis, MN

September 2019 - May 2020

Graduate Research Assistant (Division of Epidemiology)

- Analyzing data on the Health, Neighborhood Context and Mobility NIH-funded R01

- Fundamentals of Epidemiology

Laura M. Houghtaling - 2

Arundel Metrics, Inc., St. Paul, MN

June 2015 - May 2017

Epidemiologist and Data Analyst

- Manage, analyze, and synthesize complex survey and surveillance data
- Identify new sources of data
- Write and improve Stata code
- Develop macros to streamline data management and analysis using MS Access, Excel and SQL Server Management Studio
- Present scientific work in written abstracts, posters, and PowerPoint presentations
- Conduct general project management and scientific writing

Minnesota Department of Health, St. Paul, MN

Team D (Foodborne Illness Surveillance and Outbreak Investigation)

June 2014 - June 2015

- Conducted surveillance activities for communicable diseases reportable to the Acute Disease Investigation and Control Section (ADIC) such as Salmonella, Shigella, Campylobacter, Escherichia coli O157:H7 infections, other Shiga-toxin producing E.coli, Cryptosporidium and Giardia infections under the direction of the unit epidemiologists
- Assisted in conducting epidemiologic studies of infections reported to ADIC in MN
- Assisted in investigations of outbreaks in MN from data collection, entry, management and analysis.
- Used SAS to generate descriptive statistics of foodborne illness cases in MN to submit to other government agencies and to contribute to yearly epidemiological reports.

Pierre Louis Institute of Epidemiology and Public Health, Paris, France

March 2014 - February 2017

Data Analyst (Trivacan randomized controlled trial - impact of HBV and HIV parameters on treatment interruption)

- Performed statistical analysis examining the effect of initiating antiretroviral treatment with anti-hepatitis B virus activity, specifically on HIV-infection parameters, in HIV-HBV co-infected patients from Côte d'Ivoire.
- Learned advanced Stata programming skills
- Presented analyses in a clearly laid-out and appropriately documented tables
- Co-authored three papers that have been accepted by peer-reviewed journals

Phillips Neighborhood Clinic, Minneapolis, Minnesota

Human Subjects Research Manager (Process improvement and data management)

April 2014 - August 2015

- Managed volunteer and patient research initiatives and maintained the clinic research database.
- Participated in monthly management meetings.

Phillips Neighborhood Clinic, Minneapolis, Minnesota

Graduate Research Assistant (Surveillance and Data Analysis)

October 2013 - April 2014

- Assisted with research projects being conducted at the interdisciplinary student-run clinic, such as surveying clinic volunteers and preceptors.
- Spoke with patients when they arrived at the clinic about the current research studies, obtained their consent to participate, completed research surveys, and conducted follow-up interviews over the phone.
- Completed data entry and analysis projects.
- Designed a survey to assess provider communication in the clinic and obtained IRB approval.

Laura M. Houghtaling – 3

Penny George Institute for Health & Healing, Abbott Northwestern Hospital, Minneapolis, Minnesota

Research Assistant (Integrative Health & Medicine Research Center)

January 2012 – December 2013

- Assisted with a three-year NIH funded retrospective observational study examining the effectiveness of integrative medicine therapies, such as acupuncture and massage, on pain and anxiety in a hospital setting by developing a method for obtaining pain and anxiety scores from inpatients, developing a working database and creating a training manual for research staff.
- Recruited study participants, conducted study visits and data entry, fine-tuned the study protocol, and processed blood samples for a randomized clinical trial examining the effects of vitamin D supplementation on metabolic syndrome in Allina Health employees.
- Continued recruiting study participants, conducting study visits, collecting data and processing blood samples for a randomized clinical trial in partnership with Massachusetts General Hospital that examined the protective effect of vitamin D supplementation on individuals with pre-hypertension.

Emergency Care Consultants, Minneapolis, Minnesota

Medical Scribe

January 2010 – March 2012

- Wrote the medical note and followed patient care for ER physicians at Abbott Northwestern and United Hospitals.
- Worked with one physician for each shift and saw each patient with the physician to record the history of present illness, review of systems and the physical exam.
- Used a computer on wheels to log into each patient's electronic medical record, enter lab and radiology results as they became available and provide updates on the ED course and the medical decision making.

Cocoa Butter Mermaid, Minneapolis, Minnesota

Business Owner

January 2009 – December 2010

- Transformed a long-time hobby into a small chocolate making business. Prepared small batches of chocolate in a commercial kitchen and sold products at local markets throughout the year.

The Bridge for Youth, Minneapolis, Minnesota

Wellness Counselor

August 2009 – January 2010

- Served as a wellness counselor for 17-21 year olds in the transitional living program. Developed and led small workshops on wellness topics such as meditation, exercise, yoga and nutrition.

Outside In, Portland, Oregon

Clinical Administrative Assistant and Clinical Lab Assistant

March 2008 – August 2008

- Updated medical records in the clinic, prepared and processed blood samples in the lab, checked-in patients and managed referrals to specialists, clinics and hospitals.

COMMUNITY SERVICE

Anu Family Services, Inc.

Board Member

November 2016 - December 2019

- Volunteered my time to further the mission of the organization.
- Served on the committee responsible for oversight of the agency's clinical services, outcomes, statistics, quality/process improvement, clinical topics and tools, COA accreditation, and agency licensing compliance.

Laura M. Houghtaling - 4

Organic Health Response

Data analyst and epidemiologist

January 2015 - June 2016

- Evaluated the effect of a social network behavioral intervention on HIV-related stigma, a secondary outcome within the Mfangano Island Healthy Networks Impact Study (MIHNIS).
- Traveled to Mfangano Island to complete secondary data analysis and to work with the Kenyan research staff at the Ekialo Kiona Center on improving data analysis skills and knowledge of Stata.

Lao Assistance Center of Minnesota

Grant writer and educator

June 2014 - June 2015

- Assisted with identifying potential grant opportunities, writing grants, and editing documents.

Open Arms, Minneapolis, Minnesota

Student Volunteer

September 2013 - August 2018

- Meal delivery.

Himanchal Education Foundation, Nangi Village, Nepal

Independent Volunteer

November 2005 - December 2005

- Spent 6 weeks in a remote village in Nepal teaching computer skills and word processing to the village school children on behalf of the Nepal Wireless Networking Project.
- Learned about traditional practices and participated in cultural events of the village.

SKILLS

Language

- Limited working proficiency in German

Technical/Computer

- Stata, R Studio and SAS
- MS Excel, Access, Word, PowerPoint, SQL Database
- ArcGIS
- Python
- MEDSS
- Epic
- RedCap

HONORS/AWARDS

Delta Omega Public Health Honorary Society

- Nominated and elected as the only MPH Epidemiology student in the 2015 class to the Pi Chapter at the University of MN School of Public Health
- Students are chosen for outstanding performance and devotion to public health
- Students must rank in the top 25% of the graduating class

Martinson-Luepker Student Travel Award

- Travel funds are awarded to students enrolled in one of the Master's programs within the Division of Epidemiology and Community Health to support an international field experience or culminating experience project

Laura M. Houghtaling – 5

PEER-REVIEWED PUBLICATIONS

- Boyd A, Kouame MG, **Houghtaling L**, Moh R, Gabillard D, Maylin S et al. Hepatitis B virus activity in untreated hepatitis B e antigen-negative human immunodeficiency virus-hepatitis B virus co-infected patients from sub-Saharan Africa. *Transactions of The Royal Society of Tropical Medicine and Hygiene*. 2019 August;113(8):437-445.
- **Houghtaling L**, Moh R, Chekaraou MA, Gabillard D, Eholié SP, Zoulim F, et al. CD4+ T Cell Recovery and Hepatitis B Virus Coinfection in HIV-Infected Patients from Cote d'Ivoire Initiating Antiretroviral Therapy. *AIDS Res Hum Retroviruses*. 2018 May;34(5):439-445.
- Boyd A, **Houghtaling L**, Moh R, Chekaraou MA, Gabillard D, Eholié SP, et al. Clinical Outcomes during Treatment Interruptions in Human Immunodeficiency Virus-Hepatitis B Virus Co-infected Patients from Sub-Saharan Africa. *Am J Trop Med Hyg*. 2017 Dec;97(6):1936-1942.

CONFERENCE SPEAKING ENGAGEMENTS & PUBLISHED REPORTS

- *America's Health Rankings* Annual Report, 2015 - 2020
- *America's Health Rankings* Senior Report, 2016 - 2020
- *America's Health Rankings* Health of Women and Children, 2016; 2018 - 2020
- *America's Health Rankings* Health of Those Who Have Served, 2016; 2017; 2020
- *America's Health Rankings* Health of Women Who Have Served, 2017
- Geographic Variation in Premature Mortality in the United States, 1999-2013. Poster at CSTE Conference. Anchorage, AK June 2016.
- Impact of multiple adverse health behaviors on self-reported mental health in the United States. Poster presentation at APHA. Denver, CO October 2016.
- Geographic Distribution of Frequent Mental Distress and Frequent Physical Distress across the United States. American Public Health Association Annual Meeting 2016 . Denver, CO.
- Cardiometabolic Syndrome Varies Significantly by Geography and Race/Ethnicity. Poster presentation at EPIlifestyle. Portland, OR. March 2017.
- Geographic Variation in Cardiometabolic Syndrome by Education Level and Race/Ethnicity: Findings from 2011-2015 BRFSS. Poster presentation at the American College of Preventive Medicine Conference. Portland, OR. May 2017.
- Variation in Rate of Change in Smoking and Obesity Prevalence by State. American Public Health Association Annual Meeting 2017. Atlanta, GA.
- Concentrated Disadvantage by State. Poster presentation. AMCHP Conference. Arlington, VA. February 2018.
- Disparities in Frequent Mental Distress by Sexual Orientation. Behavioral Risk Factor Surveillance System Training Workshop 2018. Atlanta, GA.
- Differences in Smoking Prevalence between Veterans and Nonveterans. Poster Presentation. BRFSS Training Workshop. Atlanta, GA. April 2018.
- Intended Pregnancy by State, PRAMS 2015. Poster presentation. CityMatCH Leadership and MCH Epidemiology Conference. Portland, OR. September 2018.

- Risk of Social Isolation among adults aged 65 years and over, by State and County, American Community Survey 2012-2016. Community Indicators Consortium Impact Summit - Community Indicators in Action 2018. Minneapolis, MN.
- Measuring Senior Wellbeing panelist. Everybody Counts webinar series. Offered by the Community Indicators Consortium. January 2020.