

ESTEE Y. CRAMER

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EDUCATION

University of Massachusetts, Amherst PhD in Epidemiology	Amherst, MA Expected Spring 2023
Case Western Reserve University Master's of Public Health, Global Health Concentration Bachelor of Arts, Biology Minors in Chemistry and Mathematics	Cleveland, OH May 2019 Jan 2018

RESEARCH EXPERIENCE

University of Massachusetts, Amherst Research Assistant in the School of Public Health and Health Sciences <i>Primary Mentor: Andrew Lover, PhD MPH MS</i> <ul style="list-style-type: none">Analyzed spatial distribution of positive malaria serology status in Northern Laos.Conducted data analysis on mosquito survival rates after exposure to ivermectin.Created and distributed a COVID-19 exposure survey to 27,000 UMass students and staff	Amherst, MA Aug 2019 – present
Case Western Reserve University Research Assistant in Dept of Global Health and Infectious Disease <i>Primary Mentor: Peter A. Zimmerman, PhD</i> <ul style="list-style-type: none">Created principal component assays to help determine the ancestry of the CYP2D6.Conducted statistical analysis in R to determine risk factors for malaria infection.Collaborated with researchers in Madagascar and Oxford to assess malaria prevalence in Central Madagascar.	Cleveland, OH Aug 2018 – June 2019
Research Assistant in Dept. Global Health and Infectious Disease <i>Primary Mentor: Daniel Tisch, PhD MPH</i> <ul style="list-style-type: none">Determined the change in infection rates of lymphatic filariasis over four years of mass drug administration in the East Drekir region of Papua New Guinea.Over the course of 3 years, the burden of disease shifted from an older to younger population.	Jun 2017 – Jul 2018
Research Assistant in Dept of Population and Quantitative Health Sciences <i>Primary Mentor: Siran Koroukian, PhD</i> <ul style="list-style-type: none">Accessed R through remote servers to conduct analysis on 14 million patients in the Healthcare Cost and Utilization Project database to determine comorbidities.Discovered that people with HIV and liver disease are more likely to present with E. coli septicemia than those who have liver disease but not HIV.	Feb 2018 – May 2018
Research Assistant in the Dept. of Pathology	Jun 2015 – Oct 2015

Primary Mentor: Edward Medof, PhD

- Cultured mesenchymal stem cells to analyze the immunological impact of the cell's surface proteins
- Conducted flow cytometry, ELISA tests, and cell growth curves.

WORK EXPERIENCE

UMass Amherst, School of Public Health and Health Sciences. **Amherst, MA**

Teaching Assistant

Epidemiology in Public Health (PUBHLTH 224) Jan 2020 – May 2020

Primary Instructor: Cassandra Spracklen, PhD

Principles of Epidemiology (EPI 630) Aug 2019 – Dec 2019

Primary Instructor: Elizabeth Cook, PhD

Cleveland Circle Syringe Needle Exchange

Cleveland, OH

Data Analyst, Interviewer, Project Manager

Jun 2018 – June 2019

Primary Mentor: Lee Hoffer, PhD

- Used REDCap to create and edit a survey regarding illicit drug accessibility and modes of drug transmission.
- Conducted confidential interviews with injection drug users to better understand drug market.
- Managed a team of 6 people on scheduling interviews and receiving payments.

Case Western Reserve University, Dept of Quantitative Health Sciences **Cleveland, OH**

Teaching Assistant for Fundamentals of Epidemiology (PQHS 490) Aug 2018 – Dec 2018

Primary Instructor: Farren Briggs, PhD

Cleveland Clinic Lerner Research Institute

Cleveland, OH

Teaching Assistant for Clinical Research Epidemiology (CRB22022) Jul 2018 – Sep 2018

Primary Instructor: Paola Raska, PhD

NorthShore University HealthSystem, Dept of Infection Control

Evanston, IL

Summer Intern in Infection Prevention

Jun 2016 – Aug 2016

Supervisor: Michael Vernon, DrPH

RESEARCH INTERESTS

infectious disease transmission, epidemiologic study design, global health, elimination strategies

TECHNICAL SKILLS

Statistical Analysis and Bioinformatics: R, SAS

Data Management: REDCap, Unix, GitHub

PUBLICATIONS

Howes, R. E., Franchard, T., Rakotomanga, T. A., Ramiranirina, B., Zikursh, M., **Cramer, E. Y.**, ... & Zimmerman, P. A. (2018). Risk Factors for Malaria Infection in Central Madagascar:

Insights from a Cross-Sectional Population Survey. *The American journal of tropical medicine and hygiene*, 99(4), 995-1002.

Mehlotra, R., Howes, R., **Cramer, E.**, Tedrow, R., Rakotomanga, T., Ratsimbaoa, A., Zimmerman, P. (2019). *Plasmodium falciparum* Parasitemia and Band Sensitivity of the SD Bioline Malaria Ag P.f/Pan Rapid Diagnostic Test in Madagascar. *The American journal of tropical medicine and hygiene*, 100(5), 1196-1201.

CONFERENCE PRESENTATIONS

2019 American Society for Tropical Medicine and Hygiene, Atlanta, GA Oral Presentation
Title: The global prevalence of *CYP2D6* haplotype variation and predictions for primaquine effectiveness in Madagascar

2019 American Public Health Association, Philadelphia, PA Poster Presentation
Title: Assessing the global prevalence of *CYP2D6* haplotype variation, and the implications for primaquine distribution and *Plasmodium vivax* control

MEMBERSHIPS

Member, American Society for Tropical Medicine and Hygiene 2019 - present
Member, American Public Health Association 2019 – present

AWARDS AND CERTIFICATIONS

First place poster at Innovations CWRU conference Spring 2018
Survey Creation and Implementation for a Community Based Illegal Drug Demand Surveillance (CIDDS) system: Pilot Study
American Nystagmus Network Scholarship Fall 2018
Undergraduate Cum Laude Honors Fall 2018
Eudese and Elmer Paull Prize Spring 2017
Demonstrating an interest in Jewish contemporary life on campus.
Office of Multicultural Affairs Academic Achievement Certificate Spring 2016
Minority student with a GPA above 3.5