

DENISE T. ST. JEAN

2106 McGavran-Greenberg
Chapel Hill, NC, 27599

[Website](#) | [LinkedIn](#) | [Twitter](#)

EDUCATION

University of North Carolina at Chapel Hill

PhD, Epidemiology

Chapel Hill, NC

Expected May 2022

- Dissertation: *Policy-relevant estimates of oral rotavirus vaccine performance in low- and middle-income countries*
- Committee: Sylvia Becker-Dreps (Chair), Jessie Edwards, Elizabeth Rogawski McQuade, James Thomas, Peyton Thompson

Wake Forest University

MS, Management

Winston-Salem, NC

Jul 2014 – May 2015

Yale University

BS, Ecology and Evolutionary Biology

New Haven, CT

Aug 2010 – May 2014

- Thesis: *Non-Systemic Transmission of Disseminating and Non-Disseminating Strains of *Borrelia burgdorferi**
- Advisor: Maria Diuk-Wasser

RESEARCH INTERESTS

Infectious Disease, Enteric Disease, Pharmacoepidemiology, Causal Inference, Global Health, Vaccines, Health Policy

PUBLICATIONS

3. **St. Jean DT**, Rogawski McQuade ET, Edwards JK, Thompson P, Thomas J, Becker-Dreps S. (2022). Effect of early life antibiotic use on serologic responses to oral rotavirus vaccine in the MAL-ED birth cohort study. *Vaccine*, 40(18). pg. 2580-2587. [doi:10.1016/j.vaccine.2022.03.023](https://doi.org/10.1016/j.vaccine.2022.03.023).
2. Irfan A, **St. Jean DT**. (2021). COVID-19 & Sociocultural Determinants of Global Sanitation: An Aide-Mémoire and Call to Decolonize Global Sanitation Research & Practice. *Annals of Global Health*, 87(1), pg. 91. doi: 10.5334/aogh.3358. [doi:10.5334/aogh.3358](https://doi.org/10.5334/aogh.3358).
1. **St. Jean DT**, Herrera R, Pérez C, Gutiérrez L, Vielot NA, González F, Reyes Y, Toval-Ruiz C, Blandón P, Kharabora O, Bowman NM, Bucardo F, Becker-Dreps S, Vilchez S. (2021). Clinical Characteristics, Risk Factors, and Population Attributable Fraction for Campylobacteriosis in a Nicaraguan Birth Cohort. *The American Journal of Tropical Medicine and Hygiene*, 104(4), pg. 1215-1221. [doi:10.4269/ajtmh.20-1317](https://doi.org/10.4269/ajtmh.20-1317).

SUBMITTED MANUSCRIPTS

2. **St. Jean DT**, Edwards JK, Rogawski McQuade ET, Thompson P, Thomas J, Becker-Dreps S. Generalizing randomized controlled trial data to an external target population: a secondary analysis of data from a monovalent rotavirus vaccine efficacy trial in Malawi. (*Under Review*).

1. **St. Jean DT**, Chilyabanyama OH, Bosomprah S, Asombang M, Velu RM, Chibuye M, Mureithi F, Sukwa N, Chirwa M, Mokha P, Chilengi R, Simuyandi M. Development of a diarrhoea severity scoring scale in a passive health facility-based surveillance system. (*Under Review*).

RESEARCH EXPERIENCE

UNC-Chapel Hill, Gillings School of Global Public Health

Graduate Research Assistant

Chapel Hill, NC

Aug 2017 – Present

- Identified clinical characteristics and risk factors for campylobacteriosis among infants in Latin America.
- Estimated the association between early life antibiotic use and rotavirus vaccine immunogenicity among infants in low-and-middle-income countries.
- Explored methods to transport clinical trial findings to the general population.

Centre for Infectious Disease Research in Zambia

Summer Intern

Lusaka, Zambia

May 2019 – Jul 2019

- Developed a clinical tool for classifying diarrhea severity among children and compared performance against existing clinical tools for diarrhea severity and dehydration assessment.
- Estimated the incidence of *Shigella* and *Escherichia coli* among children under five in Lusaka.

PROFESSIONAL EXPERIENCE

Howard W. Odum Institute for Research in Social Science

Statistical Consultant

Chapel Hill, NC

Jan 2020 – Aug 2021

- Developed and communicated actionable strategies for clients across disciplines to solve data analysis, statistical, and programming problems in SAS, R, and Excel.

FHI Clinical

Business Intelligence Intern

Durham, NC

Jun 2020 – May 2021

- Compiled reports on prospective clients and disease indications, with concomitant data analyses, to support internal organizational initiatives.
- Communicated analysis results and making recommendations to senior team leaders.
- Collaborated with Global Strategy team to develop site and patient strategies for proposals.

Beghou Consulting

Analyst

New York, NY

Jul 2015 – Jun 2017

- Created dashboards and reports to track key performance indicators and monitor client initiatives.
- Evaluated patterns for pharmaceutical prescription discontinuation and medication switching.
- Designed sales territories for sales forces ranging in size from under 50 to several hundred representatives.

TEACHING EXPERIENCE

University of North Carolina at Chapel Hill, Chapel Hill, NC

EPID 711/ PUBH 760 – Clinical Measurement and Evaluation in Epidemiology

Teaching Assistant

Fall 2019

Lectures

1. “Etiology & Causation”. University of North Carolina at Chapel Hill. EPID 711/PUBH 760 – Clinical Measurement and Evaluation in Epidemiology. September 2019.

RESEARCH GRANTS & FELLOWSHIPS**ACTIVE**

Merck Investigator Studies Program 2022 – 2023
 Title: Improving HPV vaccine uptake using electronic medical record data and clinician insights
 Role: Co-Investigator
 Amount: \$177,796

Robert Wood Johnson Foundation – Health Policy Research Scholars 2021 – 2022
 Title: A qualitative investigation of COVID-19 vaccine hesitancy among Black urban transit workers
 Role: Co-Principal Investigator
 Amount: \$40,000

Robert Wood Johnson Foundation – Health Policy Research Scholars 2018 – 2022
 Role: Graduate Fellow
 Amount: \$120,000

COMPLETED

Yale University – Edward A. Bouchet Undergraduate Research Fellow 2012 – 2014
 Role: Undergraduate Fellow
 Amount: \$15,000

PRESENTATIONS**ORAL**

3. Global is local: When ignoring local context jeopardizes public health. *Interdisciplinary Association for Population Health Science*. Virtual. October 2020.
2. Non-systemic transmission of disseminating and non-disseminating strains of *B. burgdorferi*. *Yale University Department of Ecology and Evolutionary Biology Research Symposium*. New Haven, CT. May 2014.
1. Evaluating the relationship between access to cataract surgery & changes in poverty in Ghana. *Yale University Writing & Research Symposium*. New Haven, CT. March 2013.

POSTER

3. **St. Jean DT**, Chen D. Multilevel analysis of individual, household, and provincial factors influencing complete childhood immunization in Zambia. *AcademyHealth Annual Research Meeting*. Virtual. August 2020. ***Winner for Best Overall Poster**
2. **St. Jean DT**, Herrera R, Gutierrez L, Vielot NA, Gonzalez F, Reyes Y, Paniagua M, Bowman N, Bucardo F, Vilchez S, Becker-Dreps S. Clinical characteristics and risk factors for

Campylobacter spp gastroenteritis in the first year of life in a Nicaraguan birth cohort. *American Society of Tropical Medicine & Hygiene Annual Meeting*. National Harbor, MD. November 2019.*

*Also presented at the UNC School of Medicine, *Center for Gastrointestinal Biology and Disease Research Competition*. Chapel Hill, NC. October 2019.

1. States SL, Steeves TK, **St. Jean DT**, Krause PJ, Vannier EG, Diuk-Wasser MA. Evidence of non-systemic *Borrelia burgdorferi* transmission in the North American vector-host system, *12th Annual Ecology and Evolution of Infectious Disease Conference*. Fort Collins, CT. June 2014.

HONORS & AWARDS

<i>Flare Capital Scholar</i> , Flare Capital Partners	2022
<i>Students Who Rocked Public Health in 2021</i> , Journal of Public Health Management and Practice	2022
<i>Student Scholarship</i> , Summer Institute in Statistics and Modeling in Infectious Diseases, University of Washington	2021
<i>Mellon Conference Travel Award</i> , Institute for the Study of the Americas, University of North Carolina at Chapel Hill	2019
<i>Gillings Student Travel Award</i> , Gillings School of Global Public Health, University of North Carolina at Chapel Hill	2019
<i>Graduate Tuition Incentive Scholarship</i> , University of North Carolina at Chapel Hill	2018 – 2022
<i>Beta Gamma Sigma Honor Society</i> , Wake Forest University,	2015
<i>PepsiCo Corporate Fellowship</i> , Wake Forest University	2014 – 2015
<i>Yale International Summer Award</i> , Yale University	2012
<i>Yale Alumni Community Service Fellowship</i> , Yale University	2011

UNIVERSITY SERVICE

University of North Carolina at Chapel , Carolina Center for Public Service, Public Service Awards Committee.	Aug 2020 – Apr 2021
University of North Carolina at Chapel Hill , Office of the Executive Vice Chancellor & Provost. Carolina Engagement Council.	Aug 2019 – May 2020
University of North Carolina at Chapel Hill . UNC Global. Carolina Global Council.	Aug 2019 – May 2020

PROFESSIONAL SERVICE

AcademyHealth . 2021 Annual Research Meeting. <i>Planning Committee</i> .	Aug 2020 – Aug 2021
AcademyHealth . Global Health Interest Group. <i>Communications Liaison</i> .	Aug 2020 – Aug 2021

MISCELLANEOUS

Software & Programming
Professional Affiliations

SAS, R, Python statistical packages; Qualtrics
American Society of Tropical Medicine and Hygiene, AcademyHealth,
Society for Epidemiologic Research, Triangle Global Health
Consortium