

# 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, *12<sup>th</sup> 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

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

### PROFESSIONAL SERVICE

<b>AcademyHealth</b> . 2021 Annual Research Meeting. <i>Planning Committee</i> .	Aug 2020 – Aug 2021
<b>AcademyHealth</b> . 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