

# DENISE T. ST. JEAN

denise.st.jean@unc.edu  
2106 McGavran-Greenberg  
Chapel Hill, NC, 27599

## EDUCATION

### University of North Carolina at Chapel Hill

PhD, Epidemiology

Chapel Hill, NC

Expected May 2022

- Dissertation: *Policy-relevant estimates for oral rotavirus vaccine effectiveness 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, Pharmacoepidemiology, Causal Inference, Global Health, Vaccines, Health Policy

## PUBLICATIONS

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*. [doi:10.4269/ajtmh.20-1317](https://doi.org/10.4269/ajtmh.20-1317).

## 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

Chapel Hill, NC

Statistical Consultant

Jan 2020 – present

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

### FHI Clinical

Durham, NC

Business Intelligence Intern

Jun 2020 – May 2021

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

### Beghou Consulting

New York, NY

Analyst

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

Fall 2019

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

Teaching Assistant

#### 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

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-PI

Amount: \$40,000

Robert Wood Johnson Foundation – Health Policy Research Scholars Program

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>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 – present
<b>AcademyHealth</b> . Global Health Interest Group. <i>Communications Liaison</i> .	Aug 2020 – present

**MISCELLANEOUS**

<b>Software &amp; Programming</b>	SAS, R, Microsoft PowerBI
<b>Professional Affiliations</b>	American Society of Tropical Medicine and Hygiene, AcademyHealth, Society for Epidemiologic Research, Triangle Global Health Consortium