

EDUCATION

Duke University

M.Sc. Global Health 2015
Epidemiology and research design

Rice University

Certification Global Health
Technologies 2012
B.S. Bioengineering 2012

SKILLS

SOFTWARE: STATA, NVivo, SPSS,
ArcGIS, Tableau, Python (EpiPy),
VenSim

LANGUAGES:

French (Professional fluency),
Arabic (MSA & Levantine, conversational)

INTERNATIONAL WORK

EXPERIENCE: Chad, Jordan,
Palestinian Territories, Uganda,
Malawi, Lesotho

PUBLICATIONS

- Defense & Intelligence Involvement in Humanitarian Aid. *Sanford Journal of Public Policy*, 2015
- Overseas Labs: National Defense and Public Health. *Baker Institute Student Journal*, 2012
- Short Publications: Articles, data displays, or associated work featured in *The New York Times*, *The Atlantic*, and *Deadspin*; former associate editor, *Engineering for Change*.

AWARDS

RICE 360° YOUNG ALUMNI LEADERSHIP AWARD May 2017

NEW YORK TIMES REPORTING CONTEST 2012

- Interviewed local clinicians, farmers, and business owners in Malawi & Lesotho
- Wrote articles on healthcare innovations, agriculture, HIV/AIDS, and energy; scripted associated video

SUMMARY

Field researcher and analyst experienced in designing and evaluating interventions to improve public health in conflict-afflicted settings. Trained in field epidemiology, mixed-methods research design, biostatistics, predictive infectious disease modeling, systems analysis, and policy planning. Experience in programmatic areas includes infectious disease surveillance, laboratory capacity, biosecurity policy, neonatal health, mHealth, and HIV/AIDS. Professional capacity in French and Arabic.

EXPERIENCE

PRATT POUCH CONSULTING

Consultant

Kampala, Uganda
Sep 2017 to Dec 2017

- The [Pratt Pouch](#) is a novel packaging method designed to extend the lifespan of liquid antiretrovirals and reduce mother-to-child HIV transmission during home births.
- Managed transfer of pharmaceutical packet production to Kampala, Uganda. This included trainings, equipment installation, quality assurance, and strengthening local partnerships.

THE CARTER CENTER

Technical Advisor/Data Manager, Guinea Worm Eradication

N'Djamena, Chad
Apr 2016 to May 2017

- Synthesized nationwide infectious disease surveillance data, identified emergent trends, conducted epidemiological investigations, and drew conclusions from incomplete data to inform operational planning in support of Chad's Guinea Worm Eradication Program
- Served as in-country lead for operational research on behavioral and biomedical interventions, including development of monitoring and evaluation plans for new interventions
- Combined case investigations with data analysis to create a predictive model for disease transmission, capturing 83% of new infections
- Supervised two national data managers and coordinated epidemiological reports from 14 field officers throughout the country
- Conducted exploratory research and technical trainings in rural Chad
- Provided monthly data reports and analysis to national and international partners (Government of Chad, WHO, Gates Foundation) regarding the efficacy of surveillance activities in over 2,000 villages, OneHealth containment, and strategic recommendations for national eradication

THE WHITE HOUSE

Policy Intern

Washington, DC
May 2015 to Sep 2015

- Contributed policy recommendations, communications strategies, and editing for the U.S. [National HIV/AIDS Strategy](#), synthesizing agency recommendations into a coherent document
- Conducted literature reviews on epidemiological hotspot modeling, behavior change, and long-term cost savings from pre-exposure prophylaxis
- Crafted presentations, speeches, and policy memos for Domestic Policy Council leadership and the President's Chief of Staff
- President of the foreign affairs group: designed and coordinated a lecture series with 11 senior-level National Security Council staffers, and supported NSC biosecurity and counterterrorism teams.

UN RELIEF & WORKS AGENCY

Dunia Health Cofounder & Field Researcher

Amman, Jordan
Oct 2012 to May 2015

- Designed a text message reminder system to improve vaccine supply chain management in response to stock ruptures in Palestinian refugee camps, relative to no prior existing mobile health initiatives
- Organized partnership with the United Nations; conducted testing, patient surveys, and clinic evaluations
- Collected and analyzed 15 months of data and managed appointment reminders for over 2,000 patients
- Work was recognized at the White House Iftar, White House Global Emerging Entrepreneurs event, & Clinton Global Initiative

DEVELOPMENT INNOVATION VENTURES, USAID

Intern

Washington, DC//Telecommute
Aug 2013 to May 2014

- Drafted concise narrative reports on the results of investments in governance, health, energy, and sanitation for congressional policymakers and public consumption.
- Assisted with project evaluation, communications strategies, and investment selection.

PROJECTS

GRADUATE THESIS: REMINDERS, REFUGEES, AND RAMADAN

2013 to 2015

- Tracked a cohort of 100 infants for six months to identify risk factors for delayed or missed immunization among refugees receiving healthcare from the United Nations in Amman, Jordan
- Arranged research partnership with the UN, designed study, developed IRB protocol, and conducted epidemiological analysis
- Devised and implemented policy recommendations to boost vaccination and created a predictive model to identify high-risk patients
- Interviewed patients to assess the political impact of free healthcare provision and views on U.N. support during 2014 Operation Protective Edge

EMERGENCY FLOOR: RESEARCH & GRANTS CONSULTANT

Oct 2015 to Apr 2016

- Devised evaluation protocol for improved flooring in refugee housing units in Beqaa Valley, Lebanon and Azraq, Jordan in coordination with UNHCR water and sanitation regional office
- Modeled potential infections averted & cost savings from case reductions in enteric disease and leishmaniasis.

NEONATAL APNEA MONITOR

2011 to 2012

- Collaborated with a team to design, build, and test a medical device to detect respiratory distress in premature infants, stimulate proper breathing, and alert nurses
- Worked with Doctors Without Borders to assess needs at Queen Elizabeth Hospital in Blantyre, Malawi
- Device placed in three national design competitions, was patented, and receive a Saving Lives at Birth grant from USAID