

# Seth Edmunds

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## EDUCATION

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Emory Rollins School of Public Health  
Atlanta, Georgia  
Masters of Public Health, 5/2013  
Major: Global Health Infectious Disease

University of Wyoming  
Laramie, Wyoming  
Bachelor's Degree, 12/2007  
Major: Medical Microbiology

## WORK EXPERIENCE

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### ***ORISE Fellow/Surveillance Epidemiologist***

*Centers for Disease Control and Prevention,  
Enteric Disease Epidemiology Branch, Atlanta, GA (9/2016-Present)*

- Responsible for the collection, management, and analysis of national botulism case data.
- Develop automated methods to clean and evaluate epidemiological data from local and state health departments as part of an informatics unit.
- Identify and resolve surveillance data quality issues.
- Detect potential botulism outbreaks and coordinate investigations.
- Summarize and present analyses for annual reports, outbreaks, and scientific posters and publications.
- Host workshops on various topics for the CDC R Users Group.

### ***Tuberculosis Epidemiologist***

*South Carolina Department of Health and Environmental  
Control, Columbia, SC (3/2014-6/2015)*

- Responsible for the design, management, and use of the TB surveillance systems and the TB case, suspect, contact, and LTBI data systems.
- Conducted periodic descriptive and complex analyses of surveillance and population data, reported key findings to multiple audiences.
- Led epidemiological investigations and provided technical advice during large outbreaks and contact investigations.
- Assisted the TB Division in obtaining various grants and cooperative agreements from local, national, and federal sources.
- Assisted in the coordination and conduction of annual TB training seminars involving many members of the South Carolina health community and in the development of TB education materials.
- Provided leadership in performance management and assisted in the development, implementation, monitoring, and evaluation of performance management standards.
- Guest lectured at the University of South Carolina for the Infectious Disease Epidemiology course on Disease Elimination and Eradication.

### **Technical Advisor**

*The Carter Center, South Sudan Guinea Worm Eradication Program  
(SSGWEP), Warrap State, South Sudan (6/2013-12/2013)*

- Managed multiple sub-offices with over 30 staff including 13 field officers and 2 program officers; together we managed a volunteer network of over 500 individuals to implement evidence-based interventions to stop guinea worm transmission including filter distribution, health education for Guinea worm disease and proper filter usage, and village-based containment of active cases.
- Management of all field-level programmatic, technical, financial, and operational aspects of GW eradication including surveillance, implementation of interventions, staff compliance with the SSGWEP operational guidelines, transportation resources, material allocation, advertising available positions, interviewing, hiring, training, incentivization for both staff and volunteers, planning, and monthly reporting within my area under minimal supervision.
- Developed lines of communication and coordination with local, county, state, and national authorities regarding the status and needs of the SSGWEP in my area particularly advocacy for the provision or rehabilitation of safe sources of drinking water.

### **Graduate Teaching Assistant**

*Emory Rollins School of Public Health,  
Atlanta, Georgia 7/2012-5/2013*

- Responsible for clarifying key public health concepts, overseeing the work of more than 50 students, and assisting in the development of plenary coursework for the courses: Global Challenges and Opportunities, Evidence-Based Health Planning, and Immunization Programs and Policies.
- Cleaned and analyzed the 2012 Ethiopia USAID DHS dataset in preparation for the Evidence-Based Health Planning course.

### **Graduate Researcher**

*Saudi Arabia National Guard Health Affairs,  
Riyadh, Saudi Arabia 5/2012-7/2012*

- Designed the protocol and surveys for assessing the antimicrobial knowledge, attitudes, and practices (KAP) among resident staff and physicians at the King Abdulaziz Medical Center (KAMC) in Riyadh, Saudi Arabia.
- Responsible for the analysis of the KAP surveys and writing of the manuscript for publication.
- Conducted a critical analysis of the tuberculosis control program at the KAMC and presented the findings to the Infection Control office.

### **Epidemiology Intern**

*Wyoming Department of Health  
Cheyenne, Wyoming 9/2010-3/2011*

- Created, managed, and analyzed infectious disease databases using Epi Info, MS Access, MS Excel, and SAS with specific focus on influenza, pertussis, rabies, Lyme disease, and dog bites.
- Assisted with outbreak investigations and case follow-ups.
- Trained on Outbreak Management System (OMS) and National Incident Management System (NIMS).
- Conducted HIV/STD awareness outreach programs for the Communicable Diseases section.
- Assisted with the design of awareness and promotional material for [www.knowyo.org](http://www.knowyo.org) and for the Infectious Disease Epidemiology department website.

**Community Health Volunteer**  
*United States Peace Corps*  
*Vunisea, Kadavu, Fiji 5/2008 - 7/2010*

- Completed a ten week training for language, cross-cultural relations, and community-based technical application skills.
- Designed and implemented a waterborne disease surveillance and sampling program for the province of Kadavu, Fiji in conjunction with WHO and SOPAC.
- Designed and built water facilities based upon evidential need. Total funding allocated \$250,000+ USD.
- Facilitated both local and provincial-wide dengue cleanup campaigns combined with capacity strengthening in remediation, these projects totaled \$10,000.
- Strengthened local capacity by educating village communities and health staff on disease awareness and providing technical knowledge of disease processes and life cycles ranging from TB and HIV to filariasis and norovirus.
- Assisted the National Disaster Management Office with disaster preparedness, management, and assessment before, during, and after hurricanes, floods, earthquakes, and outbreaks.
- Provided technical assistance for vaccination and eradication programs and translated medical jargon into Fijian (dialectic and Bauan), specifically HPV and filariasis.
- Hosted training sessions for incoming Peace Corps volunteers on working with the Fijian government, capacity strengthening in remote areas, assisting local government in disaster preparation, and water and sanitation programs in Fiji.
- Developed partnerships and collaborations with Fijian domestic and international agencies: WHO, USAID, AusAID, NZAID, Fijian Disaster Management Office, Red Cross, Fijian Ministry of Health, South Pacific Geoscience Committee, Secretariat of the South Pacific, and others.

**Research Assistant**  
*University of Wyoming, Wyoming State Veterinary Lab*  
*Laramie, Wyoming (9/2006 - 12/2007)*

- Researched and compiled relevant scientific papers for a meta-analysis paper: *Water Quality for Wyoming Livestock and Wildlife*.
- Assisted with diagnostic veterinary bacteriologic samples.
- Developed a PCR detection protocol for pathogenic *leptospira*.
- Conducted serologic tests for developing a more sensitive antibody for detecting botulinum toxin.

**Additional Skills**

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**Languages**

English (native), Fijian (advanced), Spanish (intermediate)

**Technical**

Adobe Acrobat, Epi Info, MS Office, Python, R, REDCap, SAS, SQL

## PUBLICATIONS

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### Papers:

Bergeron G, Latash J, Da Costa-Carter C, et al. *Notes from the Field: Botulism Outbreak Associated with Home-Canned Peas* — New York City, 2018. MMWR Morb Mortal Wkly Rep 2019;68:251–252. <https://www.cdc.gov/mmwr/volumes/68/wr/mm6810a5.htm>

(Pending) S. Edmunds, D. J. Vugia, et al. *Temperature Abuse in Commercial Foods as a Continued Source of Foodborne Botulism in the United States, 1994–2017*

### Poster Presentations:

*Collecting Clinical Outcome Information Following Botulism Antitoxin Release, 2017*. Edmunds S, Chatham-Stephens K <http://cste.confex.com/cste/2017/webprogram/Paper7487.html>

### Thesis:

*Assessing the Need for Antimicrobial Use Guidelines among Staff at King Abdulaziz Medical City, Kingdom of Saudi Arabia, 2013*. Edmunds S <https://etd.library.emory.edu/concern/etds/mp48sd042>