

# Christopher B. Boyer

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## EDUCATION

### COLUMBIA UNIVERSITY

#### MPH EPIDEMIOLOGY

May 2015 | New York, NY

Thesis: 

GPA: 3.90 / 4.0

### WRIGHT STATE UNIVERSITY

#### B.S. MECHANICAL ENGINEERING

May 2010 | Dayton, OH





College of Engineering

Magna Cum Laude

National Merit Scholar

GPA: 3.87 / 4.0

## LINKS

 boyercb  
 christopherbboyer  
 christopherboyer.2  
 @christopherbboyer

## COURSEWORK

### GRADUATE

Epidemiology I, II, and III

Biostatistics

Analysis of Categorical Data

Analysis of Longitudinal Data

Generalized Linear Regression Models

Field Methods for Research

### UNDERGRADUATE

Linear Algebra

Differential Equations

Calculus I-IV

Computer Science I and II

## SKILLS

### PROGRAMMING

Over 10 000 lines:

R • Stata • Python • Javascript •  
Matlab • ODK •  $\text{\LaTeX}$

Over 5 000 lines:

C • C++ • Ruby • UNIX Shell •  
HTML • CSS • D3.js

Familiar:

AS3 • iOS • Android • SQL •  
MongoDB • Julia

### LANGUAGES

Portuguese (Prof. Working Proficiency)



Spanish (Basic)

German (Basic)

## EXPERIENCE


### INNOVATIONS FOR POVERTY ACTION SENIOR RESEARCH ANALYST

Jun 2015 - Present | New York, NY

- Responsible for improving data quality, measurement, and analysis across IPA's 200+ active research projects through novel uses of technology and research methodologies.
- Developed 2 Stata packages to perform data quality checks and analyze re-interview data used by IPA, J-PAL, and the World Bank. *bcstats*  *ipacheck* 
- Lead analyst and data manager for 2 RCTs in Zambia and Liberia and Co-Investigator on a sanitation survey in Kenya.
- Technical advisor for the Progress out of Poverty Index a machine-learning model to help NGOs target the most vulnerable households for intervention.


### THE WORLD BANK RESEARCH CONSULTANT

Mar 2016 - Nov 2016 | New York, NY

- Built software to automate the creation of 280 infographic posters from survey data for an RCT in Burkina Faso. 

### COLUMBIA UNIVERSITY RESEARCH ANALYST

Dec 2013 - Jun 2015 | Bolgatanga, Ghana & New York, NY

- Worked as an analyst for Dr. James Phillips on 2 impact evaluations (1 RCT, 1 DD) and research related to health systems and maternal and child survival in Ghana and Tanzania. 
- Designed an electronic medical record system to monitor emergency referrals between 81 health facilities in northern Ghana.

### PEACE CORPS VOLUNTEER SCIENCE TEACHER

Sep 2010 - Jan 2013 | Montepuez, Mozambique

- Established first science laboratory in the district serving 1000+ students.
- Managed extracurricular journalism club that published a newspaper and broadcasted a weekly radio show confronting key issues in adolescent health.

### AIR FORCE RESEARCH LABORATORY RESEARCH ASSOCIATE

Sep 2008 - Sep 2010 | Dayton, OH

- Worked on computational fluid dynamics research exploring science of high-altitude, high-angle space vehicle reentry.

## PUBLICATIONS

- [1] S. Patel, J. K. Awoonor-Williams, R. Asuru, C. Boyer, J. Tiah, M. Sheff, M. Schmitt, E. Jackson, and J. Phillips. Benefits and limitations of a community-engaged emergency referral system in a remote, impoverished setting of northern Ghana. *Global Health Science and Practice*, 4(4):552-567, 2016. doi:10.9745/GHSP-D-16-00253.
- [2] J. Phillips, M. Sheff, and C. Boyer. The astronomy of Africa's health systems literature during the MDG era: Where are the systems clusters? *Global Health Science and Practice*, 3(3):482-502, 2015. doi:10.9745/GHSP-D-15-00034.
- [3] J. Pinchoff, C. Boyer, N. Mutombo, R. N. Chowdury, and T. Ngo. Why don't urban youth in Zambia use condoms? the influence of gender and marriage on non-use of male condoms among young adults. *PLoS ONE*, Forthcoming.