

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 • \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. Lessons learned from a community-engaged emergency referral systems-strengthening initiative in a remote, impoverished setting of northern Ghana. *Global Health Science and Practice*, Forthcoming.
- [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.