

## Christopher B. Boyer

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### CONTACT INFORMATION

Department of Epidemiology  
677 Huntington Avenue  
Harvard University  
Boston, MA 02115 USA

☎ +1 (937) 657-8163  
✉ [cboyer@g.harvard.edu](mailto:cboyer@g.harvard.edu)  
🌐 [christopherbboyer.com](http://christopherbboyer.com)

### RESEARCH INTERESTS

Causal inference, pragmatic randomized-controlled trials, epidemiology of violence, social epidemiology, mediation and misclassification

### EDUCATION

**Harvard University**, Cambridge, Massachusetts USA

Ph.D. Student, Epidemiology, May 2022 (expected)

M.S., Biostatistics, May 2020 (expected)

**Columbia University**, New York, New York USA

M.P.H., Epidemiology, May, 2015

**Wright State University**, Dayton, Ohio USA

B.S., Mechanical Engineering, June, 2010

### HONORS AND AWARDS

2015 Summa Cum Laude, Columbia University  
2010 Magna Cum Laude, Wright State University  
2010 Tau Beta Pi, Wright State University  
2006 National Merit Scholarship Finalist  
2006 Salutatorian, Miamisburg High School

### PUBLICATIONS

Boyer, C.B., Jackson, E., Bawah, A., Schmitt, M., Awoonor-Williams, J., and Phillips, J., 2015. Estimating indices of health system readiness: an example from rural northern Ghana. *The Lancet Global Health* 3, S14.

Patel, S., Awoonor-Williams, J.K., Asuru, R., Boyer, C.B., Tiah, J.A.Y., Sheff, M.C., Schmitt, M.L., Alirigia, R., Jackson, E.F., and Phillips, J.F., 2016. Benefits and Limitations of a Community-Engaged Emergency Referral System in a Remote, Impoverished Setting of Northern Ghana. *Global Health: Science and Practice* 4, 552–567.

Pinchoff, J., Boyer, C.B., Mutombo, N., Chowdhuri, R.N., and Ngo, T.D., 2017. 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* 12, e0172062.

### PAPERS IN PREPARATION

Chowdhuri, R.N., Pinchoff, J., Boyer, C.B., and Ngo, T.D. Gender and perceived control of condom use among young, urban adults in Zambia. (Revise and Resubmit)

Pinchoff, J., Boyer, C.B., and Ngo, T.D. The evaluation of the Woman's Condom marketing approach: What value did peer-led interpersonal communication add to the promotion of a new female condom in urban Lusaka?. (Under Review)

Bawah, A., Awoonor-Williams J., Asuming, P., Boyer, C., Achana, S., Akazili, J., and Phillips, J.F. The child survival impact of the Ghana essential health interventions program: a health systems strengthening initiative in a rural region of northern Ghana. (Under Review)

CONFERENCE PRESENTATIONS	<p>Boyer, C. 2015. Estimating indices of health system readiness: an example from rural northern Ghana. Consortium of Universities for Global Health.</p> <p>Bawah, A., Awoonor-Williams J., Asuming, P., Boyer, C., Achana, S., Akazili, J., Phillips, J.F. 2017. The child survival impact of the Ghana essential health interventions program: a health systems strengthening initiative in a rural region of northern Ghana. Annual Meeting of the Population Association of America.</p>
PROFESSIONAL EXPERIENCE	<p><b>Innovations for Poverty Action</b>, New York, New York USA</p> <p><i>Technical Lead</i> <b>September, 2017 - September, 2018</b>  Responsible for improving quality and efficiency of data collected at IPA through innovative technical solutions. Manage a team that provides support to 70+ active randomized evaluations advising on research and questionnaire design, programming (Stata, R, and Python), statistics/econometrics, and data management. Lead global technical training.</p> <p><i>Senior Research and Data Analyst</i> <b>April, 2016 - August, 2017</b>  Provided technical guidance to randomized evaluations testing the impact of the Partnership Schools Program in Liberia, the impact of the IRC's Girl Empower Program in Liberia. Authored Stata packages used by IPA, J-PAL, and the World Bank to automate daily checks of survey data quality.</p> <p><i>Research and Data Analyst</i> <b>July, 2015 - March, 2016</b>  Lead data manager and analyst on a randomized evaluation testing the impact of interpersonal communication networks on contraceptive use in Zambia.</p> <p><b>World Bank</b>, Washington, DC USA</p> <p><i>Consultant</i> <b>March, 2016 - August, 2016</b>  Built data pipeline and visualization using Python to automate the creation of easy-to-read municipal performance scorecards for low-literacy populations as part of a randomized evaluation on voter engagement and political preferences in Burkina Faso.</p> <p><b>Peace Corps</b>, Montepuez, Cabo Delgado, Mozambique</p> <p><i>Secondary Science Teacher</i> <b>September, 2010 - December, 2012</b>  Instructed more than 700 secondary school students in Physics and English. Lessons delivered in Portuguese. Established first science laboratory in the district. Collaborated with the Ministry of Education to organize regional and provincial science fair competition. Managed extracurricular journalism club.</p>
PUBLISHED SOFTWARE	<p>Boyer, C.B., Baako, I.A., and Sandino, R.S. 2018. ipacheck, Stata package for running high-frequency checks of survey data.</p> <p>Boyer, C.B. and White, M. 2016. bcstats, Stata package for comparing survey and back check data.</p>
PROGRAMMING	<p>Statistics: R, Stata, Python, SAS, Julia (beginner), Stan (beginner)</p> <p>Web: HTML, JavaScript, CSS, D3.js</p> <p>GIS: ArcGIS, QGIS, ggmap, ggplot</p> <p>Markup: Markdown, <math>\LaTeX</math></p> <p>Survey: SurveyCTO, Qualtrics</p> <p>Other: C/C++, SQL, Java</p>