Raymond P. Guiteras
November 2017

1. **Contact Information:**

Department of Agricultural and Resource Economics
North Carolina State University
4326 Nelson Hall; 2801 Founders Drive
Raleigh, NC 27695

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2. **Current Affiliations:**

Assistant Professor, Dept. of Agricultural and Resource Economics, North Carolina State University

Core Faculty, Global Water, Sanitation and Hygiene (WaSH) Research Cluster, NCSU

Research Affiliate, Center for Environmental and Resource Economic Policy (CEnREP), NCSU

Research Affiliate, International Growth Centre

3. **Education:**

Ph.D., Economics, M.I.T., 2008. Thesis committee: M. Greenstone, E. Duflo, V. Chernozhukov.

B.A., Economics and History, magna cum laude, Amherst College, 1998.

4. **Research Interests:**

Environmental Economics, Development Economics, Applied Microeconometrics

5. **Publications:**

Productivity in Piece-Rate Labor Markets: Evidence from Rural Malawi. *Journal of Development Economics*, 131: 42-61, March 2018, doi:10.1016/j.jdeveco.2017.11.002. (with B. K. Jack)

Microcredit and Willingness to Pay for Environmental Quality: Evidence from a Randomized-Controlled Trial of Finance for Sanitation in Rural Cambodia. *Journal of Environmental Economics and Management*, 86: 121-140, November 2017, doi:10.1016/j.jeem.2016.11.004. (with A. BenYishay, A. Fraker, G. Palloni, N.B. Shah, S. Shirrell and P. Wang)

The Pursuit of Balance in Sequential Randomized Trials. *Development Engineering*, 1(1): 12-25, June 2016, doi:10.1016/j.deveng.2015.11.001. (with D. I. Levine and T. Polley)

Disgust, Shame and Soapy Water: Tests of Novel Interventions to Promote Safe Water and Hygiene. *Journal of the Association of Environmental and Resource Economists*, 3(2): 321-359, June 2016, doi:10.1086/684161. (with D. I. Levine, S. Luby, T. Polley, K. Khatun-e-Jannat and L. Unicomb)

Satellites, Self-reports, and Submersion: Exposure to Floods in Bangladesh. *American Economic Review (Papers and Proceedings)*, 105(5): 232-236, May 2015, doi:10.1257/aer.p20151095. (with A. Jina and A. M. Mobarak)

Encouraging Sanitation Investment in the Developing World: A Cluster-Randomized Trial. *Science*, 348(6237) pp. 903-906, May 2015, doi:10.1126/science.aaa0491. (with J. Levinsohn and A. M. Mobarak)

6. **Working Papers:**

Does Development Aid Undermine Political Accountability? Leader and Constituent Responses to a Large-Scale Intervention. BREAD Working Paper 489, August 2016. (with A. M. Mobarak).

Credit Constraints, Discounting and Investment in Health: Evidence from Micropayments for Clean Water in Dhaka. February 2016. (with D. I. Levine, T. Polley and B. Quistorff)

Eliciting and Utilizing Willingness to Pay: Evidence from Field Trials in Northern Ghana. Maryland Population Research Center Working Paper PWP-MPRC-2015-07, December 2015. Under Review. (with J. Berry and G. Fischer).

Short- and Medium-Run Health Impacts of Addressing Complementarities and Externalities in Water and Sanitation. NBER Working Paper 21521, September 2015. (with E. Duflo, M. Greenstone and T. Clasen)

Routine Disasters: Floods, Human Capital and Adaptation in Bangladesh. April 2015. (with A. Jina and A. M. Mobarak)

The Impact of Climate Change on Indian Agriculture. September 2009.

Estimation of Quantile Treatment Effects in a Regression Discontinuity Design. July 2008.

7. **Research in Progress:**

A Practitioner's Guide to Randomization Inference, Preliminary and Incomplete Draft, May 2017. (with S. Aglasan and G. Palloni) Code.

Demand Coordination with Strong Complementarities and Externalities: Evidence from Sanitation Interventions in Bangladesh (with J. Levinsohn and A. M. Mobarak)

Willingness to Pay to Avoid Arsenic Contamination in Rural Bangladesh. (with Shyamal Chowdhury and Klaus Zimmerman)

Arsenic Contamination and Cognitive Ability in Rural Bangladesh. (with Shyamal Chowdhury, Amar Hamoudi, Margaret Sheridan and Klaus Zimmerman)

FGLS Estimation of Panel Data Models with Serial Correlation, Fixed Effects and Missing Data. (with H. Roger Moon and Miguel Sarzosa)

8. **Teaching:**

Empirical Methods for Development Economics and Applied Micro (Ph.D., NCSU ECG 790), 2017

Empirical Microeconomics (Ph.D., UMD Econ 626), 2008-2011, 2014

Theory of Development Economics (undergraduate, UMD Econ 416), 2009-2011, 2014-2015

Program Evaluation (MA, Jackson Institute, Yale INRL 714), 2013

Randomized Evaluation of Social Programs (Jameel Poverty Action Lab Executive Education Course), Teaching Assistant (2006, 2007), Head Teaching Assistant (2008), Instructor (2011)

Development Macroeconomics (Ph.D., MIT 14.772 and Harvard 2390c), Teaching Assistant, 2007-2008

Microeconometrics (Ph.D., MIT 14.385), Teaching Assistant, 2006

Econometrics I (Ph.D., MIT 14.382), Teaching Assistant, 2006. Awarded Grad TA of the Year.

Probability and Statistics (undergraduate, MIT 14.30), Instructor, 2005

9. **Advising (with first placement):**

Brian Quistorff, Ph.D., U. of Maryland, 2016 (Microsoft Research)

Aaron Szott, Ph.D., U. of Maryland, 2014 (World Bank)

Maria Prada, Ph.D., U. of Maryland, 2014 (IADB)

Amy Knaup, Ph.D., U. of Maryland, 2012

Ermal Hitaj, Ph.D., U. of Maryland, 2011 (World Bank)

Diether Beuermann, Ph.D., U. of Maryland, 2011 (IADB)

Abby Alpert, Ph.D., U. of Maryland, 2011 (RAND)

Juan-Diego Bonilla, Ph.D., U. of Maryland, 2011 (U. Sao Paolo)

Alessandro Orfei, Ph.D., U. of Maryland, 2012 (World Bank)

Ariel BenYishay, Ph.D., U. of Maryland, 2009 (U. of New South Wales)

10. **Fellowships and Grants**

Institute for the Study of Labor (IZA), Arsenic Contamination and Cognitive Ability, 2015: €50,000

International Growth Centre (IGC), Bolstering Demand for Improved Sanitation when Adoption Decisions Across Households are Inter-linked, 2015, £20,000.

Institute for the Study of Labor (IZA), Labor Supply and Productivity in Times of Environmental Shocks: The Case of Arsenic Contamination in Bangladesh, 2014: €470,000

Bill & Melinda Gates Foundation. Demand for and Marketing of Water Treatment in Dhaka, Bangladesh, 2010, $250,000.

International Growth Centre. Contracts and Market Design for Land-Based Carbon Offsets. December 2010, £57,124.

Bill & Melinda Gates Foundation. Adoption of Sanitary Practices and Technologies in Bangladesh. October 2010, $1,618,047.

International Labor Organization. Barriers to and Impacts of Health Microinsurance: Evidence from a Randomized Trial in Northern Ghana. April 2010, $110,000.

Dean's Research Initiative, College of Behavioral and Social Sciences, University of Maryland. Impacts of Climate Change on Low-Lying and Flood-Prone Areas: The Case of Bangladesh, March 2010, $19,617.

Maryland Population Research Center Seed Grant Program. Clean Water, Health and the Market Mechanism: How Effective is the Market at Allocating Health Goods? December 2009, $15,000.

International Growth Centre, Impacts of Climate Change on Low-Lying and Flood-Prone Areas: The Case of Bangladesh, September 2009, £17,859

International Growth Centre, Household Clean Water Technology in Northern Ghana: Valuation, Use and Impact, September 2009, £24,055

George and Obie Schultz Fund Grant, 2005 & 2006

Martin Fellowship for Sustainability, M.I.T. Laboratory for Energy and the Environment, 2005–2006

National Science Foundation Graduate Research Fellowship, 2003–2005, 2007–2008

11. **Professional Service:**

Referee (alphabetical): *American Economic Journal: Applied Economics; American Economic Review; Climatic Change Letters; Development Engineering; Economic Development and Cultural Change; Environment and Development Economics; Environmental and Resource Economics; Journal of African Economies; Journal of Development Economics; Journal of Development Studies; Journal of the European Economic Association; Journal of Economic Behavior and Organization; Journal of Environmental Economics and Management; Journal of Human Resources; Journal of Political Economy; Journal of Public Economics; Journal of the Association of Environmental and Resource Economists; Nature; Proceedings of the National Academy of Sciences; Quarterly Journal of Economics; Review of Economics and Stastistics; Review of Economic Studies; Science; Science of the Total Environment; World Bank Economic Review; World Development*

12. **Honors and Awards**

Graduate TA of the Year, Department of Economics, M.I.T., 2005-2006

Nelson Memorial Award (Top Senior Economics Major), Amherst College, 1998

ΦBK, Amherst College, 1997

Economics Junior Class Prize, Amherst College, 1996

13. **Previous Affiliations:**

Assistant Professor, Department of Economics, University of Maryland, 2008–2016

Visiting Assistant Professor of Economics, Jackson Institute, Yale University, 2012–2013

Visiting Scholar, Resources for the Future, Fall 2009

Assistant Economist, International Research, Federal Reserve Bank of New York, 2001–2003

Associate Consultant, Bain & Company, 1999–2001

Research Assistant, White House Council of Economic Advisors, 1998–1999