

## Andrew Crane-Droesch

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CONTACT INFORMATION	Barrows Hall, 310 Energy & Resources Group University of California, Berkeley Berkeley, Ca 94720	<i>Tel:</i> +1 (215) 435-2644 (US) +254 (0)719872150 (Kenya) <i>Fax:</i> (510) 642-1085 <i>E-mail:</i> andrewcd@berkeley.edu <i>Website:</i> <a href="http://andrewcd.berkeley.edu">http://andrewcd.berkeley.edu</a>
RESEARCH INTERESTS	Economic development and environmental change in sub-Saharan Africa, agriculture, soil carbon, climate change adaptation & mitigation, program/project evaluation, applied statistics, environment/development policy.	
EDUCATION	<b>University of California, Berkeley</b> , Berkeley, California, USA Doctoral Candidate, Energy & Resources Group, (expected graduation date: May 2015) <ul style="list-style-type: none"><li>• Dissertation Topic: “Comparing means of technology dissemination for soil fertility management and carbon sequestration in Western Kenya: experimental evidence on impact and adoption”</li><li>• Committee:<ul style="list-style-type: none"><li>• David I. Levine</li><li>• Daniel Kammen</li><li>• Margaret S. Torn</li><li>• Edward Miguel</li></ul></li></ul> M.S., Energy & Resources, May 2011 <b>Columbia University</b> , New York, New York USA M.A., Climate and Society, August 2006 <b>University of California, Santa Cruz</b> , Santa Cruz, California USA B.A., Environmental Studies, December, 2003	
HONORS AND AWARDS	U.C. Berkeley: Center for evaluation of global action (CEGA) Evidence to Action (E2A) Climate Change Research Challenge (2013-2014) U.S. Borlaug Fellowship in Global Food Security, 2012-2014 U.S. Department of Education Foreign Language and Area Studies Fellowship (Swahili), 2010-2013 Innovations for Poverty Action Graduate Student Fellowship, 2011 National Science Foundation Graduate Student Research Fellowship (Honorable Mention), 2011-2014 ThinkSwiss Graduate Research Scholarship, 2010 U.C. Santa Cruz: Regents Scholarship 1999-2003, graduated with College Honors, Departmental Honors, and Thesis Honors, 2003	
CURRENT RESEARCH PROJECTS	<u>Scaling Biochar - Investing in Soils, Improving Livelihoods and Sequestering Carbon (PI).</u> Description: A randomized controlled trial examining the livelihood benefits and diffusion dynamics of farm-scale biochar systems in Western Kenya, while testing the efficacy of various approaches for promoting environmentally-friendly technologies more generally. Implementing partners: Innovations for Poverty Action, Re:char Kenya Ltd. Funding: \$99,952 (USAID/Development Innovation Ventures), \$45,000 (Others) January 2013 - December 2014	

PUBLICATIONS	<p>Crane-Droesch, A., Abiven, S., Jeffery, S. Torn, M.S. 2013. "Heterogeneous global crop yield response to biochar: a meta-regression analysis." <i>Environmental Research Letters</i> Vol 8, pp 44-49.</p> <p>Crane-Droesch, A. 2006. Environmentally Sustainable Transport and Climate Change: Experiences and lessons from community initiatives. GEF Small Grants Program, United Nations Development Program, November 2006.</p>
PAPERS IN PREPARATION	<p>Crane-Droesch, A., Clare, A.J., De Pinto, A. 2013. "Biochar profitability in the presence of a carbon price: Evidence from Kenya and Vietnam." Working paper.</p> <p>Crane-Droesch, A., Clare, A.J. 2013. "Climate change mitigation/warming potential of biochar production technologies: integrating kiln emissions, efficiency, and biochar residence time in soil" Working paper.</p>
CONFERENCE PRESENTATIONS	<p>Crane-Droesch, A., Abiven, S., Schmidt, M.W.I., Torn, M.S. 2010. "A meta-analysis of plant response to biochar." 2nd International Biochar Initiative Conference, Rio de Janeiro, Brazil, September 2010.</p>
PROFESSIONAL EXPERIENCE	<p><b>United Nations Development Program, Energy &amp; Environment Group</b>, New York, New York USA</p> <p><i>Coordinator, Community Based Adaptation Program</i> <b>October, 2006 - August, 2009</b>  Coordinated implementation of the \$4.5M UNDP/Global Environment Facility Community-Based Adaptation Program. Built the capacity of country-level grantmakers to engage in the climate change adaptation focal area, conducted technical review of country program strategies and project proposals, participated in project development activities in Morocco, Jamaica, and Guatemala.</p> <p><b>Global Environment Facility Small Grants Program (GEF/SGP)</b>, New York, New York USA</p> <p><i>Summer Intern: Sustainable Transportation</i> <b>June, 2006 - September, 2006</b>  Conducted a thematic review of the GEF/SGP's grantmaking activities in the sustainable transportation focal area.</p>
CONSULTING	<p><b>International Food Policy Research Institute</b>, Washington DC</p> <p style="text-align: right;"><b>January 2013 - Present</b></p> <p>Assessment of the economics of biochar systems, drawing on case studies in Kenya, Ghana and Vietnam.</p>
PROGRAMMING, LANGUAGES	<ul style="list-style-type: none"> <li>• Statistical Packages: R, Stata, Matlab/Octave</li> <li>• Basic unix/linux shell scripts, cluster/parallel supercomputing using Torque</li> <li>• Languages: English (native speaker), Swahili (proficient), Spanish (intermediate), French (basic)</li> </ul>