Niall C. Keleher

☐ +1 802 868 1981   ✉ niall.keleher@gmail.com

⬡ nkeleher | 🌐 nkeleher.com | in niall-keleher

Motivation: Experienced researcher focused on delivering scientific approach to data-driven decision making

Skills: Python, R, SQL, causal inference, experimental design, machine learning, survey design & methodology

---

Research Improving People's Lives

Sr. Research Scientist 08/2020-Present

Lead quantitative research to support design of user-centered applications for governmental partners; Apply tools from causal machine learning to deliver data-driven valued added metrics to job seekers considering a career change; manage and mentor 3 researchers through collaborative code reviews and team presentations

Stanford University

Lecturer and Postdoctoral Scholar, Stanford Graduate School of Business 09/2019-07/2020

Data Science Scholar, Stanford Data Science Institute 01/2020-07/2020

Developed and co-taught course on data-driven impact for MBA and data science students at Stanford; Managed research teams working on machine learning and causal inference; Led nationally-representative conjoint experiment with 2000 respondents to measure how people value workforce training programs

The World Bank Group

External Research Consultant 08/2015-12/2018

Produced policy research paper on the use of machine learning for targeting social protection programs; Extracted and transformed JSON database of 500,000 household surveys and performed econometric analysis that helped the Government of Malawi improve national social beneficiary registry; Programmed survey instruments for digital data collection in collaboration with the World Bank and Government of Sierra Leone

Innovations for Poverty Action

Director of Research Methods and Training 01/2012-08/2014

Directed global research management at non-profit research organization with $40M annual budget and more than 200 active randomized controlled trials in 15 countries; Managed and mentored a team of research analyst to develop Stata, Python, and R programs for data collection and primary analysis of field experiments; Advised cross-functional teams on experimental design, power calculations, data collection methods, measurement strategies, and statistical analysis

Country Director, Malawi 01/2009-12/2011

Consulted over 50 governmental, nongovernmental, and private-sector stakeholders on methods of causal inference to assess the impact of programs, policies, and products; Collaborated with academic researchers to design 14 randomized controlled trials, managed a team of 125 staff to collect high-quality survey data, and oversaw daily business operations of a national organization

The World Bank Group

Junior Professional Associate, Office of the Chief Economist 07/2006-08/2008

Contributing team member of policy research report with over 2,000 citations on conditional cash transfers

Education

University of California Berkeley, Ph.D. Information Management & Systems — 2019

Harvard Kennedy School, MPA in International Development — 2006

The Johns Hopkins University, B.A. Economics and International Studies (Double Major) — 2003

Johns Hopkins SAIS Europe, Diploma in International Studies & Economics — 2002

Teaching Experience

Lecturer, **Data-Driven Impact** — Spring 2020
Stanford Graduate School of Business — Co-Instructor: Susan Athey

Lead Instructor, **Software Prototyping for Data Science and Information Management** — Fall 2017
University of California Berkeley

Graduate Student Instructor, **History of Information** — Spring 2018 & 2019
University of California Berkeley — Instructors: Paul Duguid and Geoffrey Nunberg
★ 2018 Outstanding Graduate Student Instructor Award

Teaching Assistant, **Core Methods in Data Science** — Spring 2016
University of Washington — Instructor: Joshua Blumenstock

Publications

Journal Articles

Beaman, L., Keleher, N., Magruder, J., Trachtman, C. (2021) "Urban Networks and Targeting: Evidence from Liberia." *AEA Papers and Proceedings*, 111: 572-76.

Beaman, L., Heskowitz, S., Keleher, N., and Magruder, J. (2020) "Stay in the Game: A Randomized Controlled Trial of a Sports and Life Skills Program for Vulnerable Youth in Liberia." *Economic Development and Cultural Change.*

Beaman, L., Keleher, N., Magruder, J. (2018). "Do Job Networks Disadvantage Women? Evidence from a Recruitment Experiment in Malawi." *Journal of Labor Economics* 36, no. 1 (January 2018): 121-157.

Conference Proceedings

Keleher, N., Barela, M.C., Blumenstock, J.E., Festin, C., Podolsky, M, Rezaee, A., Troland, E., Heimerl, K. (2020). "Connecting Isolated Communities: Quantitative Evidence on the Adoption of Community Cellular Networks in the Philippines." Conditionally Accepted, *The Eleventh International Conference on Information and Communication Technologies and Development (ICTD2020)*, Guayaquil, Ecuador.

Blumenstock, J.E., Keleher, N., and Reisinger, J. (2016). "The Premise of Local Information: Building Reliable Economic Indicators from a Decentralized Network of Contributors." *The Eighth International Conference on Information and Communication Technologies and Development (ICTD2016)*, Notes Track, Ann Arbor, MI.

Blumenstock, J.E. and Keleher, N. (2015). "The Price Is Right? Statistical evaluation of a crowdsourced market information system in Liberia." *The 5th Annual ACM Symposium on Computing for Development (DEV '15)*, London, U.K.

Affiliations

Institutional Review Board, Board Member, Innovations for Poverty Action — 2012 - Present

American Economic Association, Member — 2013 - Present

National Association of Business Economics, Member — 2018 - Present

Golub Capital Social Impact Lab, Stanford Graduate School of Business   2019 - 2020

Data Intensive Development Lab, University of California Berkeley, School of Information   2016 - 2019

Research Committee, Ph.D. Student Representative, University of Washington, Information School   2016

Research Review Committee, Peer Reviewer, Innovations for Poverty Action   2010-2015

DataLab, Ph.D. Student Affiliate, University of Washington, Information School   2014 - 2016

Referee Service and Peer Review: Word Bank Economic Review, Journal of Development Economics, Journal of African Economies, National Science Foundation (NSF), IEEE/ACM Conference on Information and Communication Technologies and Development (ICTD), ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Social Informatics (SocInfo16)