

NIALL C. KELEHER

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

Domain Experience: experimental design, causal inference, machine learning, survey design, data visualization

Technical Skills: Python, SQL, R, Stata, git, Apache Airflow, meltano, sqlmesh, DuckDB, Redshift, PostgreSQL

TEXTIO

Sr. Data Scientist

11/2021-Present

Led the architectural design and implementation of end-to-end analytical data warehouse via meltano, sqlmesh, Apache Airflow, DuckDB, Redshift, and PostgreSQL to deliver internal and customer-facing analytics; Intellectual leader on scientific methodology and analytical approaches to data-driven insights for DEIB-tech company; Produced analysis of core product promise to drive sales and marketing of Textio's products with the support of scientific evidence.

RESEARCH IMPROVING PEOPLE'S LIVES

Sr. Research Scientist

08/2020-10/2021

Led quantitative research to support design of user-centered applications for governmental partners; Applied tools from causal machine learning to deliver data-driven value added metrics to job seekers considering a career change; Managed and mentored 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 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, 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

<i>Institutional Review Board</i> , Board Member, Innovations for Poverty Action	2012 - Present
<i>American Economic Association</i> , Member	2013 - Present
<i>Golub Capital Social Impact Lab</i> , Stanford Graduate School of Business	2019 - 2020
<i>Data Intensive Development Lab</i> , University of California Berkeley, School of Information	2016 - 2019
<i>Research Committee</i> , Ph.D. Student Representative, University of Washington, Information School	2016
<i>Research Review Committee</i> , Peer Reviewer, Innovations for Poverty Action	2010-2015
<i>DataLab</i> , Ph.D. Student Affiliate, University of Washington, Information School	2014 - 2016
<i>Referee Service and Peer Review</i> : 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)	