Ethan Roubenoff

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EDUCATION

UC BERKELEY
PhD, Demography
Fields: Formal Demography, Spatial Statistics, Public Health
Expected 2023

UC BERKELEY
MA, Demography
May 2019

NORTHWESTERN UNIVERSITY
BA in Sociology
Minor in Critical Theory
June 2018

COURSEWORK

GRADUATE LEVEL
Formal Demography, Probability, Statistical Programming, Hierarchical and Bayesian Modeling, Spatial Data Analysis, Epidemiological Modeling

UNDERGRADUATE LEVEL
C/C++/C# Programming, Data Structures and Algorithms, Computer Systems

WORK EXPERIENCE

UC BERKELEY
Graduate Student Instructor
Fall 2019
Private Statistics Tutor
Spring 2020-Present

NORRIS UNIVERSITY CENTER
Productions Assistant
2017 - 18 | Northwestern University

THE HOUSE OF FINDINGS
Photographer
March 2012 – August 2015 | Cambridge, MA

RESEARCH EXPERIENCE

UC BERKELEY | Graduate Student Researcher
Berkeley Interdisciplinary Migration Initiative | March 2019-Present
- Mapping Spatial Inequality Project: responsible for (1) the implementation of two R-Shiny apps and (2) the development of Service Accessibility Index using OpenStreetMap and OpenSourceRoutingMachine

Chagas Modeling | Ongoing
- For dissertation project, working on development of a Bayesian Spatial model to estimate the prevalence of Chagas disease, a rare parasitic infection in rural Brazil, with focus on climatic vulnerability and socioeconomic inequality.

Berkeley Interpersonal Contact Survey | Summer 2020-Present
- Assistance in design and deployment of an online contact survey regarding COVID-19 behavior; currently conducing behavioral modeling on the results

Human Mortality Database | Summer 2019
- (1) Responsible for producing high-quality country lifetables and mortality schedules and (2) development of an internal R application for visualizing small-area mortality inequality

INSTITUTE FOR POLICY RESEARCH, NORTHWESTERN UNIVERSITY Research Fellow and Webmaster
Chicago Democracy Project | Spring 2017 — Summer 2018
- Responsible for the development of CDP's interactive database of Chicago elections, including light election data analysis, data display, and user interface development

DEPARTMENT OF SOCIOLOGY | Undergraduate Researcher
April 2016 – Present | Northwestern University | Evanston, IL
- Honors Thesis: Off the Rails—Visual and Statistical Evidence of the Unique Patterns of Racial and Economic Bifurcation around Chicago Public Transportation Stations
- Medical Sociology research on doctor-patient interactions and treatment efficacy in breast cancer patients. Published in Research in the Sociology of Health Care, 2018

SKILLS

PROGRAMMING
- R (expert): statistical programming, data management and analysis, spatial analysis, R-shiny GUI development, Bayesian Modeling
- C/C++/C#, Python, SQL, JavaScript (React, graphQL), HTML (proficient)

LAUGUAGE
Six years of Spanish language education and substantial use while working at The House of Findings.

ARTS
Over ten years of experience in guitar and ensemble performance; previously professional photographer with The House of Findings.