

Andrew Carr

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Education

Duke University

Durham, NC

PH.D./M.S. IN SOCIOLOGY AND STATISTICS

Sept. 2015 - May 2021

- Concentrations: Economic Sociology and Social Statistics
- Relevant Coursework: Predictive Modeling, Statistical Programming, Machine Learning

University of Chicago

Chicago, IL

M.A. IN SOCIAL SCIENCE

Sept. 2013 - Aug. 2014

- Relevant Coursework: Statistics for Public Policy, Hierarchical Linear Modeling, Survey Research Methodology

Wesleyan University

Middletown, CT

B.A. IN HISTORY

Sept. 2004 - May 2008

Work Experience

Data+

Durham, NC

PROJECT MANAGER

May. 2020 - Aug. 2020

- Managed a team of two Duke undergraduate students and one graduate student.
- Built a model in Python to help the Duke Athletics Department predict donor churn.

National Opinion Research Center at the University of Chicago

Chicago, IL

RESEARCH ASSISTANT

Dec. 2014 - Aug. 2015

- Collected and cleaned data for NORC's Survey of Doctorate Recipients.

Research & Relevant Projects

Lorenz Interpolation: Estimating Income Inequality from Grouped Income Data

Nov. 2020

UNDER REVIEW: REVISE & RESUBMIT AT SOCIOLOGICAL METHODOLOGY

- A statistical method, tested on Census data, that estimates inequality measures from categorical income data.
- Developed lorenz R package, an implementation of method from paper (available on CRAN).

Mapping the Underlying Social Structure of Reddit

Sept. 2019

SKILLS: APACHE SPARK, NETWORK ANALYSIS AND VISUALIZATION

- Parsed multiple months (30 GB) of Reddit posts in terminal with JQ.
- Created interactive visualizations of the network with Highcharts.

Building a Recommendation System with Beer Data

Aug. 2019

SKILLS: RECOMMENDATION SYSTEMS, SINGULAR VALUE DECOMPOSITION, COLLABORATIVE FILTERING

- Built a recommendation system with 100k ratings scraped legally from several beer sites.
- Used SVD and collaborative filtering to make a beer recommendation app (andrewcarr24.github.io/shiny/).

Awards & Achievements

2020-2021 **Visualizing Cities Lab Fellowship**, Duke University

2016-2020 **Summer Research Fellowship**, Duke University

2015-2019 **James B. Duke Fellowship**, Duke University

Skills

Programming

R, Python, SQL

Statistics

Statistical Modeling, Machine Learning, Working with Panel Data, Geospatial Analysis