Studying Social Inequality with Data Science

INFO 3370 / 5371 Spring 2024

Welcome!

Lecture today draws on Jencks (2002). After class,

- read p. 49-53
- complete the very brief Problem Set 0 by Wednesday 5pm

Quantitative evidence about inequality

U.S. Household Income Distribution

2022 Annual Social and Economic Supplement to the Current Population Survey



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Normative arguments about inequality

Activity. Which income distribution would you prefer? Why?

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U.S. 2022 distribution

Everyone gets \$70,181



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The Israelites Collecting Manna from Heaven

Austria About 1400–1410



Manna drops from heaven

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Manna drops from heaven

First pound is more helpful than the second

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Manna drops from heaven

First pound is more helpful than the second How should we distribute the manna?

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Manna drops from heaven People work for manna First pound is more helpful than the second How should we distribute the manna?

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An argument for allowing inequality

- 1. unequal rewards motivate work and innovation
- 2. work and innovation make everyone better off Thus inequality makes us all better off

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Empirical question. Do unequal places have higher well-being?







Goals of the course

- visualize economic inequality with graphs that summarize survey data
- connect theories about inequality to quantitative empirical evidence
- evaluate interventions to reduce inequality
- conduct data analysis using the R programming language

Plan for the course

info3370.github.io