

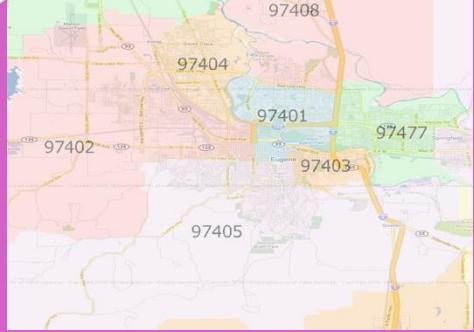
Eugene and Springfield Demographics

By: Ali Carmichael
ADS4SJ

Background



CAHOOTS (Crisis Assistance
Helping Out On The Streets)



CAHOOTS calls from 11 different
zip codes



Four different demographic groups:
age, income, education, and race.



Research Questions



What populations is
CAHOOTS serving?

How do these
populations differ
between Eugene
and Springfield?

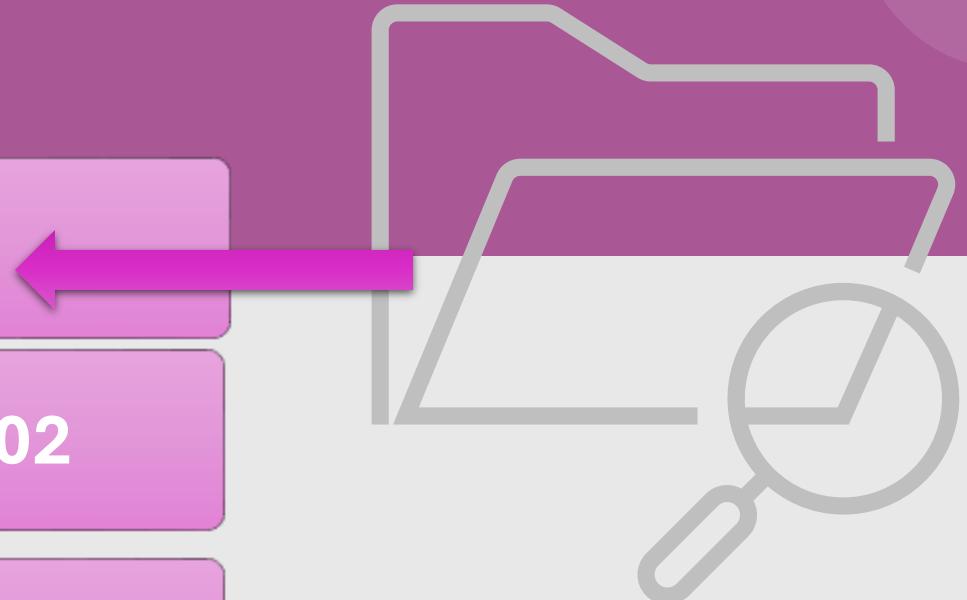
Data

Call Data		
Call_Zipcode	Responding_Unit	Call_City
97401	cahoots	Eugene
97477	cahoots	Springfield



Data

Demographic Data



Income table example

Less than
\$10,000

\$10,000 to
\$14,999

97401

97402

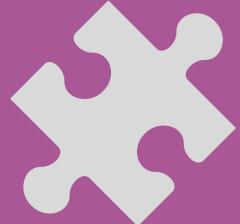
2435

1374

1481

1273

Methods



Create call volume
quartiles and
calculate averages

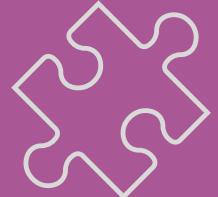
What populations is
CAHOOTS serving?

Call volume by zip
code

Variable correlations

Calls per 1000
people

Methods



Chi squared
test function

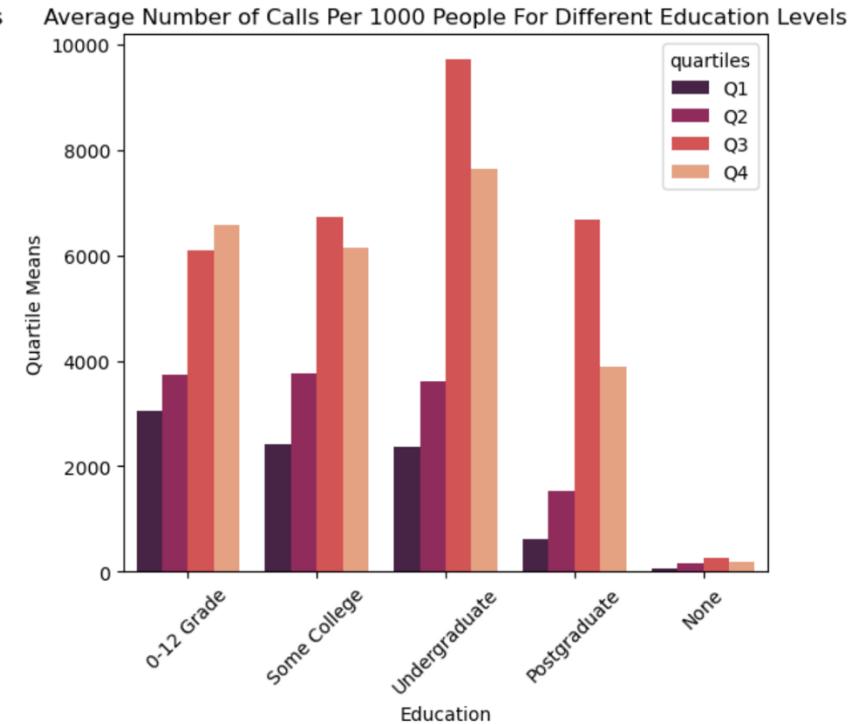
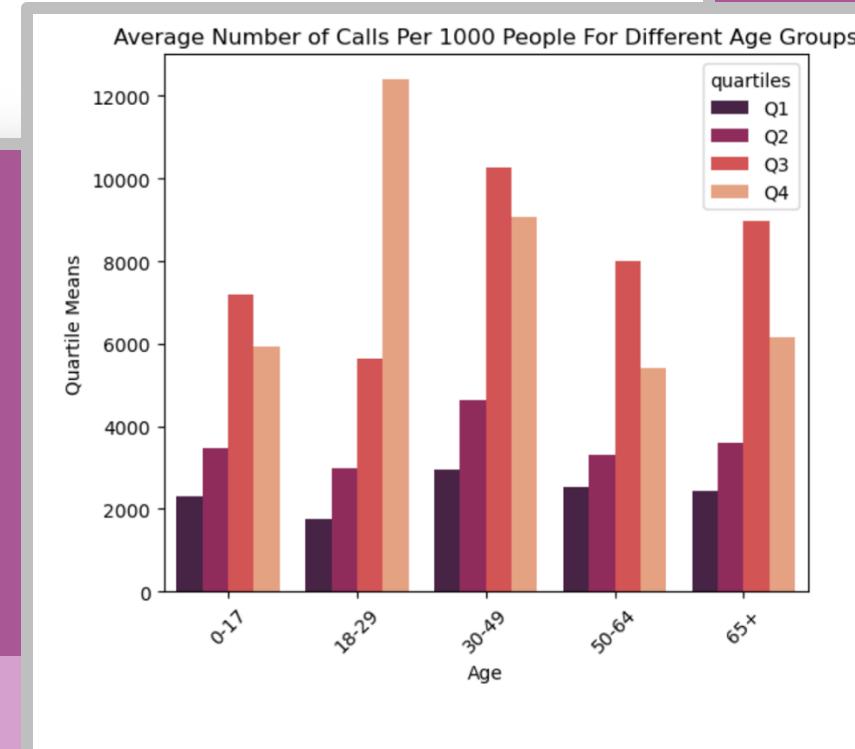
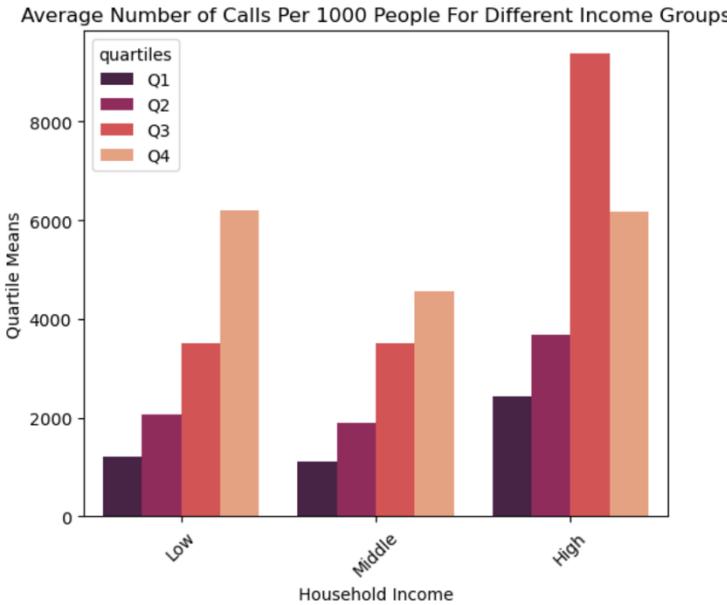
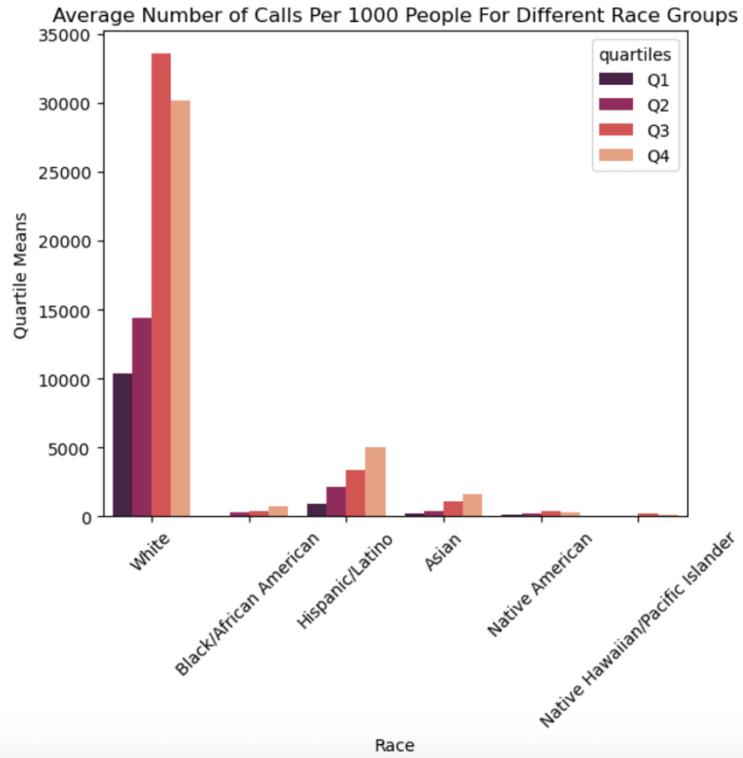
How do these
populations differ
between Eugene and
Springfield?

Call volume by
zip code

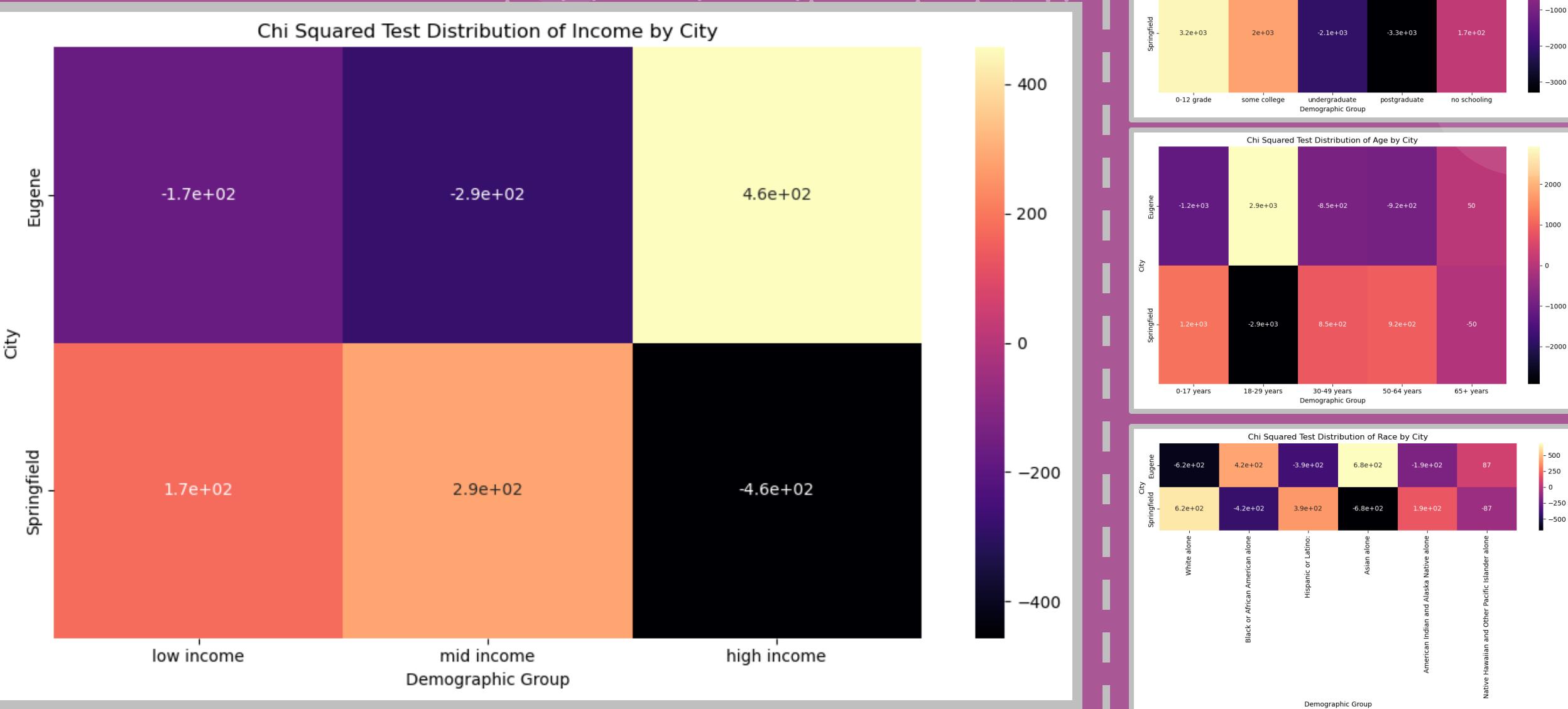
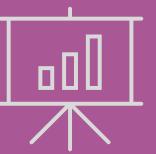
Classify entries
by city function

Calls per 1000
people

Results



Results



Discussion

18-29 age group has the highest call rate in high-call areas and Q4 is relatively consistent across all demographics

Many demographic groups are severely underrepresented in both Eugene and Springfield.

There are more zip codes for Eugene than Springfield

Demographic data is not directly related to call data



Call type and demographics?

Acknowledgments

CAHOOTS

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&
Eli

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Team

